



# Leading Inverter Manufacturer

String Inverter | Hybrid Inverter | Microinverter



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Official Website



Online Brochure

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Ver: 5.4.08.10.2026



# DEYE CORPORATION

Ningbo Deye Technology Corporation, a global leader in the new energy industry, has steadily built an integrated value chain system spanning R&D, design, production, sales and service since its founding in 2000. In April 2021, Deye was successfully listed on the Main Board of the Shanghai Stock Exchange (Stock Code: 605117.SH), marking the beginning of a new phase of accelerated growth.

Today, Deye Corporation's main business includes PV and hybrid inverters, energy storage batteries and energy storage systems, and environmental appliances represented by dehumidifiers and HVAC products. It establishes modern intelligent manufacturing bases in Ningbo, Jiaxing and Malaysia, equipped with comprehensive production facilities and testing systems.

## 2025 REVENUE

USD **1.8B**

## EMPLOYEES

**7000+**

## MANUFACTURING BASES

**1000000+m<sup>2</sup>**

# Ningbo Deye Inverter Technology Co., Ltd.

Ningbo Deye Inverter Technology Co., Ltd. is a wholly-owned subsidiary of Deye Group, specializing in developing inverter technology and creating reliable, cost-effective, and sustainable inverter-centric energy solutions since 2007. Deye's product portfolio covers 1kW-136kW string inverters, 3kW-125kW hybrid inverters and 300W-2.25kW microinverters.

Adapting to evolving energy scenarios, Deye continuously drives innovations through its energy IoT ecosystem powered by Deye Cloud. Deye enhances existing products and develops next-generation energy solutions, including micro hybrid ESS, wireless zero-export systems, LoRa-based wireless energy management systems, 100/125kW-2.5MW C&I ESS solutions and 3kW-6.6kW single-phase off-grid inverters.

As a one-stop provider of solar PV and energy storage solutions, Deye has developed battery product lines tailored to its inverters. It also delivers high-efficiency outdoor energy storage systems suitable for commercial and industrial applications of varying scales.

# DEVELOPMENT COURSE

**2000**

Deye Group was founded in Ningbo, China.

**2007**

Ningbo Deye Inverter Technology Co., Ltd. was established.

**2017**

Introduced the first-generation hybrid inverter with PV input and battery charge control, supporting up to 16 units in parallel and 4ms on-grid/off-grid switching.

**2019**

Deye hybrid inverter shipments surpassed 30,000 units, with leading shipment volume in South Africa, Pakistan, and the U.S.

**2021**

Ningbo Deye Technology Corporation was successfully listed on the Shanghai Stock Exchange (Stock Code: 605117.SH).

**2022**

Launched the 50kW hybrid inverter for commercial and industrial applications, featuring a wide battery voltage range and enhanced compatibility.

**2023**

- Cumulative shipments of hybrid inverters surpassed 1 million units.
- Ningbo Deye ESS Technology Co., Ltd. was established.

**2024**

Launched the world's first 20kW three-phase LV hybrid inverter and new 80kW three-phase HV hybrid inverter.

**2025**

- Deye inverter shipments exceeded 5 million units, including over 2 million hybrid inverters.
- Introduced the 125kW three-phase hybrid inverter and 100/125kW-2.5MW modular C&I ESS solution integrating PCS, MPPT and STS modules, raising the maximum capacity of a single system to 2.5MW.

# PRODUCT CATEGORIES

Three-Phase  
Hybrid Inverter

Single-Phase  
Hybrid Inverter

PCS

Three-Phase  
String Inverter

Single-Phase  
String Inverter

Microinverter

Micro Hybrid  
Inverter

Three-Phase  
Hybrid Inverter

## 01

## STRING INVERTER

Deye grid-connected inverter 1-136kW

Deye string inverter offers a spectrum of power options ranging from 1-136kW, supporting practical functions such as string monitoring, Arc Fault Circuit Interrupter (AFCI), zero export, and Potential Induced Degradation (PID) repair.

It is actively being developed to support larger current module and string models with greater power, aiding distributed photovoltaic power stations in further reducing the Levelized Cost of Electricity (LCOE), minimizing investment costs, accelerating the payback period, and providing partners with foreseeable high-value returns.

Three Phase  
String Inverter

Single Phase  
String Inverter

# Single Phase String Inverter

SUN-1/1.5/2/2.2/2.5/2.7/3/3.3/3.6/4K-G04P1-EU-AM1



### Efficient

- 1 MPP trackers, Max. efficiency up to 97.5%



### Adaptive

- Zero export application, VSG application
- Wide output voltage range



### Intelligent

- String intelligent monitoring (optional)



### Reliable

- Anti-PID function (Optional)
- Low start-up voltage of 80V

## Model

SUN-1K-G04 P1-EU-AM1 SUN-1.5K-G04 P1-EU-AM1 SUN-2K-G04 P1-EU-AM1 SUN-2.2K-G04 P1-EU-AM1 SUN-2.5K-G04 P1-EU-AM1 SUN-2.7K-G04 P1-EU-AM1 SUN-3K-G04 P1-EU-AM1 SUN-3.3K-G04 P1-EU-AM1 SUN-3.6K-G04 P1-EU-AM1 SUN-4K-G04 P1-EU-AM1

## PV String Input Data

|                                                    |        |   |     |     |     |     |     |     |     |     |
|----------------------------------------------------|--------|---|-----|-----|-----|-----|-----|-----|-----|-----|
| Max. PV Input Power (kW)                           | 1.3    | 2 | 2.6 | 2.9 | 3.3 | 3.5 | 3.9 | 4.3 | 4.7 | 5.2 |
| Max. PV Input Voltage (V)                          | 550    |   |     |     |     |     |     |     |     |     |
| Start-up Voltage (V)                               | 80     |   |     |     |     |     |     |     |     |     |
| MPPT Voltage Range (V)                             | 70-500 |   |     |     |     |     |     |     |     |     |
| Rated PV Input Voltage (V)                         | 360    |   |     |     |     |     |     |     |     | 420 |
| Max. Operating PV Input Current (A)                | 20     |   |     |     |     |     |     |     |     |     |
| Max. Input Short Circuit Current (A)               | 30     |   |     |     |     |     |     |     |     |     |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 1/1    |   |     |     |     |     |     |     |     |     |

## AC Output Side

|                                        |                             |         |         |         |           |           |           |           |           |           |
|----------------------------------------|-----------------------------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|
| Rated AC Output Active Power (kW)      | 1                           | 1.5     | 2       | 2.2     | 2.5       | 2.7       | 3         | 3.3       | 3.6       | 4         |
| Max. AC Output Apparent Power (kVA)    | 1.1                         | 1.65    | 2.2     | 2.42    | 2.75      | 2.97      | 3.3       | 3.63      | 3.96      | 4.4       |
| Rated AC Output Current (A)            | 4.6/4.4                     | 6.8/6.5 | 9.1/8.7 | 10/9.6  | 11.4/10.9 | 12.3/11.8 | 13.7/13.1 | 15/14.4   | 16.4/15.7 | 18.2/17.4 |
| Max. AC Output Current (A)             | 5/4.8                       | 7.5/7.2 | 10/9.6  | 11/10.6 | 12.5/12   | 13.5/13   | 15/14.4   | 16.5/15.8 | 18/17.3   | 20/19.2   |
| Rated output voltage                   | 220/230 0.85Un-1.1Un L/N/PE |         |         |         |           |           |           |           |           |           |
| Rated Output Grid Frequency/Range(Hz)  | 50/45-55, 60/55-65          |         |         |         |           |           |           |           |           |           |
| Power Factor Adjustment Range          | 0.8 leading to 0.8 lagging  |         |         |         |           |           |           |           |           |           |
| Total Current Harmonic Distortion THDi | <3%                         |         |         |         |           |           |           |           |           |           |
| DC Injection Current                   | <0.5%In                     |         |         |         |           |           |           |           |           |           |

## Efficiency

|                 |       |       |
|-----------------|-------|-------|
| Max. Efficiency | 97.3% | 97.5% |
| Euro Efficiency | 96.9% | 97.0% |
| MPPT Efficiency | >99%  |       |

## Equipment Protection

|                                      |                          |
|--------------------------------------|--------------------------|
| DC Reverse Polarity Protection       | Yes                      |
| AC Output Overcurrent Protection     | Yes                      |
| AC Output Overvoltage Protection     | Yes                      |
| AC Output Short Circuit Protection   | Yes                      |
| Thermal Protection                   | Yes                      |
| Insulation Impedance Detection       | Yes                      |
| DC Component Monitoring              | Yes                      |
| Arc Fault Circuit Interrupter (AFCI) | Optional                 |
| Anti-islanding Protection            | Yes                      |
| Residual Current Detection           | Yes                      |
| DC Switch                            | Yes                      |
| Surge Protection Level               | TYPE II(DC), TYPE II(AC) |

## Interface

|                         |                       |
|-------------------------|-----------------------|
| LCD/LED Display         | LCD1602               |
| Communication Interface | RS485/RS232 /WiFi/LAN |

## General Data

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| Operating Temperature Range (°C) | -25 to +65°C, >45°C Derating                           |
| Permissible Ambient Humidity     | 0-100%                                                 |
| Permissible Altitude             | 3000m                                                  |
| Noise (dB)                       | ≤35                                                    |
| Ingress Protection(IP) Rating    | IP 65                                                  |
| Inverter Topology                | Non-Isolated                                           |
| Over Voltage Category            | OVC II(DC), OVC III(AC)                                |
| Cabinet Size (WxHxD mm)          | 280×272.5×171.5 (Excluding Connectors and Brackets)    |
| Weight (kg)                      | 5.6                                                    |
| Warranty                         | 5 Years                                                |
| Type of Cooling                  | Natural Cooling                                        |
| Safety EMC/Standard              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |

# Single Phase String Inverter

SUN-3.6/4/4.2/4.6/5/5.2/6/6.2K-G05P1-EU-AM2



### Efficient

- 2 MPP trackers, Max. efficiency up to 97.5%



### Adaptive

- Zero export application, VSG application
- Wide output voltage range



### Intelligent

- String intelligent monitoring (optional)



### Reliable

- Anti-PID function (Optional)
- Low start-up voltage of 80V

| Model                                              | SUN-3.6K-G05<br>P1-EU-AM2                              | SUN-4K-G05<br>P1-EU-AM2 | SUN-4.2K-G05<br>P1-EU-AM2 | SUN-4.6K-G05<br>P1-EU-AM2 | SUN-5K-G05<br>P1-EU-AM2  | SUN-5.2K-G05<br>P1-EU-AM2 | SUN-6K-G05<br>P1-EU-AM2 | SUN-6.2K-G05<br>P1-EU-AM2 |
|----------------------------------------------------|--------------------------------------------------------|-------------------------|---------------------------|---------------------------|--------------------------|---------------------------|-------------------------|---------------------------|
| PV String Input Data                               |                                                        |                         |                           |                           |                          |                           |                         |                           |
| Max. PV Input Power (kW)                           | 5.4                                                    | 6                       | 6.3                       | 6.9                       | 7.5                      | 7.8                       | 9                       | 9.3                       |
| Max. PV Input Voltage (V)                          | 550                                                    |                         |                           |                           |                          |                           |                         |                           |
| Start-up Voltage (V)                               | 80                                                     |                         |                           |                           |                          |                           |                         |                           |
| MPPT Voltage Range (V)                             | 70-500                                                 |                         |                           |                           |                          |                           |                         |                           |
| Rated PV Input Voltage (V)                         | 360                                                    |                         |                           |                           |                          |                           |                         |                           |
| Max. Operating PV Input Current (A)                | 18+18                                                  |                         |                           |                           |                          |                           |                         |                           |
| Max. Input Short Circuit Current (A)               | 27+27                                                  |                         |                           |                           |                          |                           |                         |                           |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                  |                         |                           |                           |                          |                           |                         |                           |
| AC Output Side                                     |                                                        |                         |                           |                           |                          |                           |                         |                           |
| Rated AC Output Active Power (kW)                  | 3.6                                                    | 4                       | 4.2                       | 4.6                       | 5                        | 5.2                       | 6                       | 6.2                       |
| Max. AC Output Apparent Power (kVA)                | 3.96                                                   | 4.4                     | 4.62                      | 5.06                      | 5.5                      | 5.72                      | 6.6                     | 6.82                      |
| Rated AC Output Current (A)                        | 16.4/15.7                                              | 18.2/17.4               | 19.1/18.3                 | 21/20                     | 22.8/21.8                | 23.7/22.7                 | 27.3/26.1               | 28.2/27                   |
| Max. AC Output Current (A)                         | 18/17.3                                                | 20/19.2                 | 21/20.1                   | 23/22                     | 25/24                    | 26/24.9                   | 30/28.7                 | 31/29.7                   |
| Rated output voltage                               | 220/230 0.85Un-1.1Un L/N/PE                            |                         |                           |                           |                          |                           |                         |                           |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |                         |                           |                           |                          |                           |                         |                           |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |                         |                           |                           |                          |                           |                         |                           |
| Total Current Harmonic Distortion THDi             | <3%                                                    |                         |                           |                           |                          |                           |                         |                           |
| DC Injection Current                               | <0.5%In                                                |                         |                           |                           |                          |                           |                         |                           |
| Efficiency                                         |                                                        |                         |                           |                           |                          |                           |                         |                           |
| Max. Efficiency                                    | 97.3%                                                  |                         |                           |                           | 97.5%                    |                           |                         |                           |
| Euro Efficiency                                    | 96.9%                                                  |                         |                           |                           | 97.0%                    |                           |                         |                           |
| MPPT Efficiency                                    |                                                        |                         |                           | >99%                      |                          |                           |                         |                           |
| Equipment Protection                               |                                                        |                         |                           |                           |                          |                           |                         |                           |
| DC Reverse Polarity Protection                     |                                                        |                         |                           |                           | Yes                      |                           |                         |                           |
| AC Output Overcurrent Protection                   |                                                        |                         |                           |                           | Yes                      |                           |                         |                           |
| AC Output Overvoltage Protection                   |                                                        |                         |                           |                           | Yes                      |                           |                         |                           |
| AC Output Short Circuit Protection                 |                                                        |                         |                           |                           | Yes                      |                           |                         |                           |
| Thermal Protection                                 |                                                        |                         |                           |                           | Yes                      |                           |                         |                           |
| Insulation Impedance Detection                     |                                                        |                         |                           |                           | Yes                      |                           |                         |                           |
| DC Component Monitoring                            |                                                        |                         |                           |                           | Yes                      |                           |                         |                           |
| Arc Fault Circuit Interrupter (AFCI)               |                                                        |                         |                           |                           | Optional                 |                           |                         |                           |
| Anti-islanding Protection                          |                                                        |                         |                           |                           | Yes                      |                           |                         |                           |
| Residual Current Detection                         |                                                        |                         |                           |                           | Yes                      |                           |                         |                           |
| DC Switch                                          |                                                        |                         |                           |                           | Yes                      |                           |                         |                           |
| Surge Protection Level                             |                                                        |                         |                           |                           | TYPE II(DC), TYPE II(AC) |                           |                         |                           |
| Interface                                          |                                                        |                         |                           |                           |                          |                           |                         |                           |
| LCD/LED Display                                    |                                                        |                         |                           |                           | LCD1602                  |                           |                         |                           |
| Communication Interface                            |                                                        |                         |                           |                           | RS485/RS232 /WiFi/LAN    |                           |                         |                           |
| General Data                                       |                                                        |                         |                           |                           |                          |                           |                         |                           |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                           |                         |                           |                           |                          |                           |                         |                           |
| Permissible Ambient Humidity                       | 0-100%                                                 |                         |                           |                           |                          |                           |                         |                           |
| Permissible Altitude                               | 3000m                                                  |                         |                           |                           |                          |                           |                         |                           |
| Noise (dB)                                         | ≤35                                                    |                         |                           |                           |                          |                           |                         |                           |
| Ingress Protection(IP) Rating                      | IP 65                                                  |                         |                           |                           |                          |                           |                         |                           |
| Inverter Topology                                  | Non-Isolated                                           |                         |                           |                           |                          |                           |                         |                           |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |                         |                           |                           |                          |                           |                         |                           |
| Cabinet Size (WxHxD mm)                            | 305×280×180 (Excluding Connectors and Brackets)        |                         |                           |                           |                          |                           |                         |                           |
| Weight (kg)                                        | 7.7                                                    |                         |                           |                           |                          |                           |                         |                           |
| Warranty                                           | 5 Years                                                |                         |                           |                           |                          |                           |                         |                           |
| Type of Cooling                                    | Natural Cooling                                        |                         |                           |                           |                          |                           |                         |                           |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                         |                           |                           |                          |                           |                         |                           |

# Single Phase String Inverter

SUN-7/7.5/8K-G02P1-EU-AM2



### Efficient

- 2 MPP trackers, Max. efficiency up to 97.7%



### Adaptive

- Zero export application, VSG application
- Wide output voltage range



### Intelligent

- String intelligent monitoring (optional)



### Reliable

- Anti-PID function (Optional)
- Low start-up voltage of 80V

| Model                                              | SUN-7K-G02P1-EU-AM2                                    | SUN-7.5K-G02P1-EU-AM2 | SUN-8K-G02P1-EU-AM2 |
|----------------------------------------------------|--------------------------------------------------------|-----------------------|---------------------|
| PV String Input Data                               |                                                        |                       |                     |
| Max. PV Input Power (kW)                           | 10.5                                                   | 11.3                  | 12                  |
| Max. PV Input Voltage (V)                          | 550                                                    |                       |                     |
| Start-up Voltage (V)                               | 80                                                     |                       |                     |
| MPPT Voltage Range (V)                             | 70-500                                                 |                       |                     |
| Rated PV Input Voltage (V)                         | 360                                                    |                       |                     |
| Max. Operating PV Input Current (A)                | 18+26                                                  |                       |                     |
| Max. Input Short Circuit Current (A)               | 27+39                                                  |                       |                     |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+2                                                  |                       |                     |
| AC Output Side                                     |                                                        |                       |                     |
| Rated AC Output Active Power (kW)                  | 7                                                      | 7.5                   | 8                   |
| Max. AC Output Apparent Power (kVA)                | 7.7                                                    | 8.25                  | 8.8                 |
| Rated AC Output Current (A)                        | 31.9/30.5                                              | 34.1/32.7             | 36.4/34.8           |
| Max. AC Output Current (A)                         | 35/33.5                                                | 37.5/35.9             | 40/38.3             |
| Rated output voltage                               | 220/230 0.85Un-1.1Un L/N/PE                            |                       |                     |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |                       |                     |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |                       |                     |
| Total Current Harmonic Distortion THDi             | <3%                                                    |                       |                     |
| DC Injection Current                               | <0.5In                                                 |                       |                     |
| Efficiency                                         |                                                        |                       |                     |
| Max. Efficiency                                    | 97.7%                                                  |                       |                     |
| Euro Efficiency                                    | 97.2%                                                  |                       |                     |
| MPPT Efficiency                                    | >99%                                                   |                       |                     |
| Equipment Protection                               |                                                        |                       |                     |
| DC Reverse Polarity Protection                     | Yes                                                    |                       |                     |
| AC Output Overcurrent Protection                   | Yes                                                    |                       |                     |
| AC Output Overvoltage Protection                   | Yes                                                    |                       |                     |
| AC Output Short Circuit Protection                 | Yes                                                    |                       |                     |
| Thermal Protection                                 | Yes                                                    |                       |                     |
| Insulation Impedance Detection                     | Yes                                                    |                       |                     |
| DC Component Monitoring                            | Yes                                                    |                       |                     |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |                       |                     |
| Anti-islanding Protection                          | Yes                                                    |                       |                     |
| Residual Current Detection                         | Yes                                                    |                       |                     |
| DC Switch                                          | Yes                                                    |                       |                     |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |                       |                     |
| Interface                                          |                                                        |                       |                     |
| LCD/LED Display                                    | LCD1602                                                |                       |                     |
| Communication Interface                            | RS485/RS232 /WiFi/LAN                                  |                       |                     |
| General Data                                       |                                                        |                       |                     |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                           |                       |                     |
| Permissible Ambient Humidity                       | 0-100%                                                 |                       |                     |
| Permissible Altitude                               | 3000m                                                  |                       |                     |
| Noise (dB)                                         | ≤35                                                    |                       |                     |
| Ingress Protection(IP) Rating                      | IP 65                                                  |                       |                     |
| Inverter Topology                                  | Non-Isolated                                           |                       |                     |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |                       |                     |
| Cabinet Size (WxHxD mm)                            | 330×310×208.5 (Excluding Connectors and Brackets)      |                       |                     |
| Weight (kg)                                        | 12.1                                                   |                       |                     |
| Warranty                                           | 5 Years                                                |                       |                     |
| Type of Cooling                                    | Natural Cooling                                        |                       |                     |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                       |                     |

# Single Phase String Inverter

SUN-9/10/10.5K-G02P1-EU-AM2



### Efficient

- 2 MPP trackers, Max. efficiency up to 97.7%



### Adaptive

- Zero export application, VSG application
- Wide output voltage range



### Intelligent

- String intelligent monitoring (optional)



### Reliable

- Anti-PID function (Optional)
- Low start-up voltage of 80V

| Model                                              | SUN-9K-G02P1-EU-AM2                                    | SUN-10K-G02P1-EU-AM2 | SUN-10.5K-G02P1-EU-AM2 |
|----------------------------------------------------|--------------------------------------------------------|----------------------|------------------------|
| PV String Input Data                               |                                                        |                      |                        |
| Max. PV Input Power (kW)                           | 13.5                                                   | 15                   | 15.8                   |
| Max. PV Input Voltage (V)                          | 550                                                    |                      |                        |
| Start-up Voltage (V)                               | 80                                                     |                      |                        |
| MPPT Voltage Range (V)                             | 70-500                                                 |                      |                        |
| Rated PV Input Voltage (V)                         | 360                                                    |                      |                        |
| Max. Operating PV Input Current (A)                | 26+26                                                  |                      |                        |
| Max. Input Short Circuit Current (A)               | 39+39                                                  |                      |                        |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/2+2                                                  |                      |                        |
| AC Output Side                                     |                                                        |                      |                        |
| Rated AC Output Active Power (kW)                  | 9                                                      | 10                   | 10.5                   |
| Max. AC Output Apparent Power (kVA)                | 9.9                                                    | 11                   | 11.55                  |
| Rated AC Output Current (A)                        | 41/39.2                                                | 45.5/43.5            | 47.8/45.7              |
| Max. AC Output Current (A)                         | 45/43.1                                                | 50/47.9              | 52.5/50.3              |
| Rated output voltage                               | 220/230 0.85Un-1.1Un L/N/PE                            |                      |                        |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |                      |                        |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |                      |                        |
| Total Current Harmonic Distortion THDi             | <3%                                                    |                      |                        |
| DC Injection Current                               | <0.5%In                                                |                      |                        |
| Efficiency                                         |                                                        |                      |                        |
| Max. Efficiency                                    | 97.7%                                                  |                      |                        |
| Euro Efficiency                                    | 97.2%                                                  |                      |                        |
| MPPT Efficiency                                    | >99%                                                   |                      |                        |
| Equipment Protection                               |                                                        |                      |                        |
| DC Reverse Polarity Protection                     | Yes                                                    |                      |                        |
| AC Output Overcurrent Protection                   | Yes                                                    |                      |                        |
| AC Output Overvoltage Protection                   | Yes                                                    |                      |                        |
| AC Output Short Circuit Protection                 | Yes                                                    |                      |                        |
| Thermal Protection                                 | Yes                                                    |                      |                        |
| Insulation Impedance Detection                     | Yes                                                    |                      |                        |
| DC Component Monitoring                            | Yes                                                    |                      |                        |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |                      |                        |
| Anti-islanding Protection                          | Yes                                                    |                      |                        |
| Residual Current Detection                         | Yes                                                    |                      |                        |
| DC Switch                                          | Yes                                                    |                      |                        |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |                      |                        |
| Interface                                          |                                                        |                      |                        |
| LCD/LED Display                                    | LCD1602                                                |                      |                        |
| Communication Interface                            | RS485/RS232 /WiFi/LAN                                  |                      |                        |
| General Data                                       |                                                        |                      |                        |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                           |                      |                        |
| Permissible Ambient Humidity                       | 0-100%                                                 |                      |                        |
| Permissible Altitude                               | 3000m                                                  |                      |                        |
| Noise (dB)                                         | ≤35                                                    |                      |                        |
| Ingress Protection(IP) Rating                      | IP 65                                                  |                      |                        |
| Inverter Topology                                  | Non-Isolated                                           |                      |                        |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |                      |                        |
| Cabinet Size (WxHxD mm)                            | 330×410×213.5 (Excluding Connectors and Brackets)      |                      |                        |
| Weight (kg)                                        | 14.8                                                   |                      |                        |
| Warranty                                           | 5 Years                                                |                      |                        |
| Type of Cooling                                    | Natural Cooling                                        |                      |                        |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                      |                        |

# Three Phase String Inverter

SUN-3/4/5/6/7/8/9/10/12/15K-G06P3-EU-BM2-P1



### Efficient

- 2 MPP trackers, Max. efficiency up to 98.5%



### Adaptive

- Zero export application, VSG application
- Wide output voltage range



### Intelligent

- String intelligent monitoring (optional)



### Reliable

- Anti-PID function (Optional)

## Model

SUN-3K-G06 P3-EU-BM2 -P1 SUN-4K-G06 P3-EU-BM2 -P1 SUN-5K-G06 P3-EU-BM2 -P1 SUN-6K-G06 P3-EU-BM2 -P1 SUN-7K-G06 P3-EU-BM2 -P1 SUN-8K-G06 P3-EU-BM2 -P1 SUN-9K-G06 P3-EU-BM2 -P1 SUN-10K-G06 P3-EU-BM2 -P1 SUN-12K-G06 P3-EU-BM2 -P1 SUN-15K-G06 P3-EU-BM2 -P1

## PV String Input Data

|                                                    |          |   |     |   |      |    |      |    |    |       |
|----------------------------------------------------|----------|---|-----|---|------|----|------|----|----|-------|
| Max. PV Input Power (kW)                           | 4.5      | 6 | 7.5 | 9 | 10.5 | 12 | 13.5 | 15 | 18 | 22.5  |
| Max. PV Input Voltage (V)                          | 1100     |   |     |   |      |    |      |    |    |       |
| Start-up Voltage (V)                               | 140      |   |     |   |      |    |      |    |    |       |
| MPPT Voltage Range (V)                             | 120-1000 |   |     |   |      |    |      |    |    |       |
| Rated PV Input Voltage (V)                         | 600      |   |     |   |      |    |      |    |    |       |
| Max. Operating PV Input Current (A)                | 20+20    |   |     |   |      |    |      |    |    | 20+26 |
| Max. Input Short Circuit Current (A)               | 30+30    |   |     |   |      |    |      |    |    | 30+39 |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1    |   |     |   |      |    |      |    |    | 2/1+2 |

## AC Output Side

|                                        |                                         |         |         |         |           |           |           |           |           |           |
|----------------------------------------|-----------------------------------------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|
| Rated AC Output Active Power (kW)      | 3                                       | 4       | 5       | 6       | 7         | 8         | 9         | 10        | 12        | 15        |
| Max. AC Output Apparent Power (kVA)    | 3.3                                     | 4.4     | 5.5     | 6.6     | 7.7       | 8.8       | 9.9       | 11        | 13.2      | 16.5      |
| Rated AC Output Current (A)            | 4.6/4.4                                 | 6.1/5.8 | 7.6/7.3 | 9.1/8.7 | 10.7/10.2 | 12.2/11.6 | 13.7/13.1 | 15.2/14.5 | 18.2/17.4 | 22.8/21.8 |
| Max. AC Output Current (A)             | 5/4.8                                   | 6.7/6.4 | 8.4/8   | 10/9.6  | 11.7/11.2 | 13.4/12.8 | 15/14.4   | 16.7/16   | 20/19.2   | 25/24     |
| Rated output voltage                   | 220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE |         |         |         |           |           |           |           |           |           |
| Rated Output Grid Frequency/Range(Hz)  | 50/45-55, 60/55-65                      |         |         |         |           |           |           |           |           |           |
| Power Factor Adjustment Range          | 0.8 leading to 0.8 lagging              |         |         |         |           |           |           |           |           |           |
| Total Current Harmonic Distortion THDi | <3%                                     |         |         |         |           |           |           |           |           |           |
| DC Injection Current                   | <0.5%In                                 |         |         |         |           |           |           |           |           |           |

## Efficiency

|                 |       |       |       |       |
|-----------------|-------|-------|-------|-------|
| Max. Efficiency | 98.1% | 98.2% | 98.3% | 98.5% |
| Euro Efficiency | 97.5% | 97.6% | 97.8% | 98%   |
| MPPT Efficiency | >99%  |       |       |       |

## Equipment Protection

|                                      |                          |
|--------------------------------------|--------------------------|
| DC Reverse Polarity Protection       | Yes                      |
| AC Output Overcurrent Protection     | Yes                      |
| AC Output Overvoltage Protection     | Yes                      |
| AC Output Short Circuit Protection   | Yes                      |
| Thermal Protection                   | Yes                      |
| Insulation Impedance Detection       | Yes                      |
| DC Component Monitoring              | Yes                      |
| Arc Fault Circuit Interrupter (AFCI) | Optional                 |
| Anti-islanding Protection            | Yes                      |
| Residual Current Detection           | Yes                      |
| DC Switch                            | Yes                      |
| Surge Protection Level               | TYPE II(DC), TYPE II(AC) |

## Interface

|                         |                       |
|-------------------------|-----------------------|
| LCD/LED Display         | LCD1602               |
| Communication Interface | RS485/RS232 /WiFi/LAN |

## General Data

|                                                                |                                                        |             |
|----------------------------------------------------------------|--------------------------------------------------------|-------------|
| Operating Temperature Range (°C)                               | -25 to +60°C, >45°C Derating                           |             |
| Permissible Ambient Humidity                                   | 0-100%                                                 |             |
| Permissible Altitude                                           | 4000m                                                  |             |
| Noise (dB)                                                     | <45                                                    |             |
| Ingress Protection(IP) Rating                                  | IP 65                                                  |             |
| Inverter Topology                                              | Non-Isolated                                           |             |
| Over Voltage Category                                          | OVC II(DC), OVC III(AC)                                |             |
| Cabinet Size (WxHxD mm)<br>(Excluding Connectors and Brackets) | 283×525×178                                            | 283×525×188 |
| Weight (kg)                                                    | 11.5                                                   | 12          |
| Warranty                                                       | 5 Years                                                |             |
| Type of Cooling                                                | Natural Cooling                                        |             |
| Safety EMC/Standard                                            | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |             |

# Three Phase String Inverter

SUN-18/20/22/23/25K-G05



### Efficient

- 2 MPP trackers, Max. efficiency up to 98.5%



### Adaptive

- Zero export application, VSG application
- Wide output voltage range



### Intelligent

- String intelligent monitoring (optional)



### Reliable

- Anti-PID function (Optional)

| Model                                              | SUN-18K-G05                                            | SUN-20K-G05 | SUN-22K-G05 | SUN-23K-G05 | SUN-25K-G05 |
|----------------------------------------------------|--------------------------------------------------------|-------------|-------------|-------------|-------------|
| PV String Input Data                               |                                                        |             |             |             |             |
| Max. PV Input Power (kW)                           | 23.4                                                   | 26          | 28.6        | 29.9        | 32.5        |
| Max. PV Input Voltage (V)                          | 1100                                                   |             |             |             |             |
| Start-up Voltage (V)                               | 250                                                    |             |             |             |             |
| MPPT Voltage Range (V)                             | 200-1000                                               |             |             |             |             |
| Rated PV Input Voltage (V)                         | 600                                                    |             |             |             |             |
| Max. Operating PV Input Current (A)                | 26+26                                                  |             |             |             |             |
| Max. Input Short Circuit Current (A)               | 39+39                                                  |             |             |             |             |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/2+2                                                  |             |             |             |             |
| AC Output Side                                     |                                                        |             |             |             |             |
| Rated AC Output Active Power (kW)                  | 18                                                     | 20          | 22          | 23          | 25          |
| Max. AC Output Apparent Power (kVA)                | 19.8                                                   | 22          | 24.2        | 25.3        | 27.5        |
| Rated AC Output Current (A)                        | 27.3/26.1                                              | 30.3/29     | 33.4/31.9   | 34.9/33.4   | 37.9/36.2   |
| Max. AC Output Current (A)                         | 30/28.7                                                | 33.3/31.9   | 36.7/35.1   | 38.4/36.7   | 41.7/39.9   |
| Rated output voltage                               | 220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE                |             |             |             |             |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |             |             |             |             |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |             |             |             |             |
| Total Current Harmonic Distortion THDi             | <3%                                                    |             |             |             |             |
| DC Injection Current                               | <0.5%In                                                |             |             |             |             |
| Efficiency                                         |                                                        |             |             |             |             |
| Max. Efficiency                                    | 98.5%                                                  |             |             |             |             |
| Euro Efficiency                                    | 98%                                                    |             |             |             |             |
| MPPT Efficiency                                    | >99%                                                   |             |             |             |             |
| Equipment Protection                               |                                                        |             |             |             |             |
| DC Reverse Polarity Protection                     | Yes                                                    |             |             |             |             |
| AC Output Overcurrent Protection                   | Yes                                                    |             |             |             |             |
| AC Output Overvoltage Protection                   | Yes                                                    |             |             |             |             |
| AC Output Short Circuit Protection                 | Yes                                                    |             |             |             |             |
| Thermal Protection                                 | Yes                                                    |             |             |             |             |
| Insulation Impedance Detection                     | Yes                                                    |             |             |             |             |
| DC Component Monitoring                            | Yes                                                    |             |             |             |             |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |             |             |             |             |
| Anti-islanding Protection                          | Yes                                                    |             |             |             |             |
| Residual Current Detection                         | Yes                                                    |             |             |             |             |
| DC Switch                                          | Yes                                                    |             |             |             |             |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |             |             |             |             |
| Interface                                          |                                                        |             |             |             |             |
| LCD/LED Display                                    | LCD1602                                                |             |             |             |             |
| Communication Interface                            | RS485/RS232 /WiFi/LAN                                  |             |             |             |             |
| General Data                                       |                                                        |             |             |             |             |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                           |             |             |             |             |
| Permissible Ambient Humidity                       | 0-100%                                                 |             |             |             |             |
| Permissible Altitude                               | 4000m                                                  |             |             |             |             |
| Noise (dB)                                         | ≤50                                                    |             |             |             |             |
| Ingress Protection(IP) Rating                      | IP 65                                                  |             |             |             |             |
| Inverter Topology                                  | Non-Isolated                                           |             |             |             |             |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |             |             |             |             |
| Cabinet Size (WxHxD mm)                            | 362×527×220 (Excluding Connectors and Brackets)        |             |             |             |             |
| Weight (kg)                                        | 20                                                     |             |             |             |             |
| Warranty                                           | 5 Years                                                |             |             |             |             |
| Type of Cooling                                    | Intelligent air cooling                                |             |             |             |             |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |             |             |             |             |

# Three Phase String Inverter

SUN-30/33/35/36K-G04



## Efficient

- 2 MPP trackers, Max. efficiency up to 98.6%



## Adaptive

- Zero export application, VSG application
- Wide output voltage range



## Intelligent

- String intelligent monitoring (optional)



## Reliable

- Anti-PID function (Optional)

| Model                                              | SUN-30K-G04                                            | SUN-33K-G04 | SUN-35K-G04 | SUN-36K-G04 |
|----------------------------------------------------|--------------------------------------------------------|-------------|-------------|-------------|
| PV String Input Data                               |                                                        |             |             |             |
| Max. PV Input Power (kW)                           | 45                                                     | 49.5        | 52.5        | 54          |
| Max. PV Input Voltage (V)                          | 1100                                                   |             |             |             |
| Start-up Voltage (V)                               | 250                                                    |             |             |             |
| MPPT Voltage Range (V)                             | 200-1000                                               |             |             |             |
| Rated PV Input Voltage (V)                         | 600                                                    |             |             |             |
| Max. Operating PV Input Current (A)                | 40+40                                                  |             |             |             |
| Max. Input Short Circuit Current (A)               | 60+60                                                  |             |             |             |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/3+3                                                  |             |             |             |
| AC Output Side                                     |                                                        |             |             |             |
| Rated AC Output Active Power (kW)                  | 30                                                     | 33          | 35          | 36          |
| Max. AC Output Apparent Power (kVA)                | 33                                                     | 36.3        | 38.5        | 39.6        |
| Rated AC Output Current (A)                        | 45.5/43.5                                              | 50/47.8     | 53/50.7     | 54.5/52.2   |
| Max. AC Output Current (A)                         | 50/47.9                                                | 55/52.6     | 58.3/55.8   | 60/57.4     |
| Rated output voltage                               | 220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE                |             |             |             |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |             |             |             |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |             |             |             |
| Total Current Harmonic Distortion THDi             | <3%                                                    |             |             |             |
| DC Injection Current                               | <0.5In                                                 |             |             |             |
| Efficiency                                         |                                                        |             |             |             |
| Max. Efficiency                                    | 98.6%                                                  |             |             |             |
| Euro Efficiency                                    | 98.1%                                                  |             |             |             |
| MPPT Efficiency                                    | >99%                                                   |             |             |             |
| Equipment Protection                               |                                                        |             |             |             |
| DC Reverse Polarity Protection                     | Yes                                                    |             |             |             |
| AC Output Overcurrent Protection                   | Yes                                                    |             |             |             |
| AC Output Overvoltage Protection                   | Yes                                                    |             |             |             |
| AC Output Short Circuit Protection                 | Yes                                                    |             |             |             |
| Thermal Protection                                 | Yes                                                    |             |             |             |
| Insulation Impedance Detection                     | Yes                                                    |             |             |             |
| DC Component Monitoring                            | Yes                                                    |             |             |             |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |             |             |             |
| Anti-islanding Protection                          | Yes                                                    |             |             |             |
| Residual Current Detection                         | Yes                                                    |             |             |             |
| DC Switch                                          | Yes                                                    |             |             |             |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |             |             |             |
| Interface                                          |                                                        |             |             |             |
| LCD/LED Display                                    | LCD1602                                                |             |             |             |
| Communication Interface                            | RS485/RS232 /WiFi/LAN                                  |             |             |             |
| General Data                                       |                                                        |             |             |             |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                           |             |             |             |
| Permissible Ambient Humidity                       | 0-100%                                                 |             |             |             |
| Permissible Altitude                               | 4000m                                                  |             |             |             |
| Noise (dB)                                         | ≤60                                                    |             |             |             |
| Ingress Protection(IP) Rating                      | IP 65                                                  |             |             |             |
| Inverter Topology                                  | Non-Isolated                                           |             |             |             |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |             |             |             |
| Cabinet Size (WxHxD mm)                            | 330×572×206 (Excluding Connectors and Brackets)        |             |             |             |
| Weight (kg)                                        | 28.7                                                   |             |             |             |
| Warranty                                           | 5 Years                                                |             |             |             |
| Type of Cooling                                    | Intelligent Air Cooling                                |             |             |             |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |             |             |             |



# Three Phase String Inverter

SUN-40/45/50K-G04



## Efficient

- Max. 4 MPP trackers, Max. efficiency up to 98.7%



## Intelligent

- String intelligent monitoring (optional)



## Adaptive

- Zero export application, VSG application
- Wide output voltage range



## Reliable

- Anti-PID function (Optional)

| Model                                              | SUN-40K-G04 |  | SUN-45K-G04                                            |  | SUN-50K-G04 |  |
|----------------------------------------------------|-------------|--|--------------------------------------------------------|--|-------------|--|
| PV String Input Data                               |             |  |                                                        |  |             |  |
| Max. PV Input Power (kW)                           | 52          |  | 58.5                                                   |  | 65          |  |
| Max. PV Input Voltage (V)                          |             |  | 1100                                                   |  |             |  |
| Start-up Voltage (V)                               |             |  | 250                                                    |  |             |  |
| MPPT Voltage Range (V)                             |             |  | 200-1000                                               |  |             |  |
| Rated PV Input Voltage (V)                         |             |  | 600                                                    |  |             |  |
| Max. Operating PV Input Current (A)                | 40+40+40    |  |                                                        |  | 40+40+40+40 |  |
| Max. Input Short Circuit Current (A)               | 60+60+60    |  |                                                        |  | 60+60+60+60 |  |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/3+3+3     |  |                                                        |  | 4/3+3+3+3   |  |
| AC Output Side                                     |             |  |                                                        |  |             |  |
| Rated AC Output Active Power (kW)                  | 40          |  | 45                                                     |  | 50          |  |
| Max. AC Output Apparent Power (kVA)                | 44          |  | 49.5                                                   |  | 55          |  |
| Rated AC Output Current (A)                        | 60.6/58     |  | 68.2/65.2                                              |  | 75.8/72.5   |  |
| Max. AC Output Current (A)                         | 66.7/63.8   |  | 75/71.7                                                |  | 83.3/79.7   |  |
| Rated output voltage                               |             |  | 220/380V, 230/400V 0.85Un-1.1Un                        |  | 3L/N/PE     |  |
| Rated Output Grid Frequency/Range(Hz)              |             |  | 50/45-55, 60/55-65                                     |  |             |  |
| Power Factor Adjustment Range                      |             |  | 0.8 leading to 0.8 lagging                             |  |             |  |
| Total Current Harmonic Distortion THDi             |             |  | <3%                                                    |  |             |  |
| DC Injection Current                               |             |  | <0.5In                                                 |  |             |  |
| Efficiency                                         |             |  |                                                        |  |             |  |
| Max. Efficiency                                    |             |  | 98.7%                                                  |  |             |  |
| Euro Efficiency                                    |             |  | 98.1%                                                  |  |             |  |
| MPPT Efficiency                                    |             |  | >99%                                                   |  |             |  |
| Equipment Protection                               |             |  |                                                        |  |             |  |
| DC Reverse Polarity Protection                     |             |  | Yes                                                    |  |             |  |
| AC Output Overcurrent Protection                   |             |  | Yes                                                    |  |             |  |
| AC Output Overvoltage Protection                   |             |  | Yes                                                    |  |             |  |
| AC Output Short Circuit Protection                 |             |  | Yes                                                    |  |             |  |
| Thermal Protection                                 |             |  | Yes                                                    |  |             |  |
| Insulation Impedance Detection                     |             |  | Yes                                                    |  |             |  |
| DC Component Monitoring                            |             |  | Yes                                                    |  |             |  |
| Arc Fault Circuit Interrupter (AFCI)               |             |  | Optional                                               |  |             |  |
| Anti-islanding Protection                          |             |  | Yes                                                    |  |             |  |
| Residual Current Detection                         |             |  | Yes                                                    |  |             |  |
| DC Switch                                          |             |  | Yes                                                    |  |             |  |
| Surge Protection Level                             |             |  | TYPE II(DC), TYPE II(AC)                               |  |             |  |
| Interface                                          |             |  |                                                        |  |             |  |
| LCD/LED Display                                    |             |  | LCD1602                                                |  |             |  |
| Communication Interface                            |             |  | RS485/RS232 /WiFi/LAN                                  |  |             |  |
| General Data                                       |             |  |                                                        |  |             |  |
| Operating Temperature Range (°C)                   |             |  | -25 to +60°C, >45°C Derating                           |  |             |  |
| Permissible Ambient Humidity                       |             |  | 0-100%                                                 |  |             |  |
| Permissible Altitude                               |             |  | 4000m                                                  |  |             |  |
| Noise (dB)                                         |             |  | <65                                                    |  |             |  |
| Ingress Protection(IP) Rating                      |             |  | IP 65                                                  |  |             |  |
| Inverter Topology                                  |             |  | Non-Isolated                                           |  |             |  |
| Over Voltage Category                              |             |  | OVC II(DC), OVC III(AC)                                |  |             |  |
| Cabinet Size (WxHxD mm)                            |             |  | 434×570×243 (Excluding Connectors and Brackets)        |  |             |  |
| Weight (kg)                                        |             |  | 39                                                     |  |             |  |
| Warranty                                           |             |  | 5 Years                                                |  |             |  |
| Type of Cooling                                    |             |  | Intelligent Air Cooling                                |  |             |  |
| Safety EMC/Standard                                |             |  | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |  |             |  |

# Three Phase String Inverter

SUN-60/70/75/80K-G04P3-EU-AM4



### Efficient

- 4 MPP trackers, Max. efficiency up to 98.7%



### Adaptive

- Zero export application, VSG application
- Wide output voltage range



### Intelligent

- String intelligent monitoring (optional)



### Reliable

- Anti-PID function (Optional)
- Type II DC/AC SPD

| Model                                              | SUN-60K-G04P3-EU-AM4    SUN-70K-G04P3-EU-AM4    SUN-75K-G04P3-EU-AM4    SUN-80K-G04P3-EU-AM4 |             |             |             |
|----------------------------------------------------|----------------------------------------------------------------------------------------------|-------------|-------------|-------------|
| PV String Input Data                               |                                                                                              |             |             |             |
| Max. PV Input Power (kW)                           | 90                                                                                           | 105         | 112.5       | 120         |
| Max. PV Input Voltage (V)                          | 1100                                                                                         |             |             |             |
| Start-up Voltage (V)                               | 250                                                                                          |             |             |             |
| MPPT Voltage Range (V)                             | 200-1000                                                                                     |             |             |             |
| Rated PV Input Voltage (V)                         | 600                                                                                          |             | 720         |             |
| Max. Operating PV Input Current (A)                | 40+40+40+40                                                                                  |             |             |             |
| Max. Input Short Circuit Current (A)               | 60+60+60+60                                                                                  |             |             |             |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 4/3+3+3+3                                                                                    | 4/4+4+4+4   |             |             |
| AC Output Side                                     |                                                                                              |             |             |             |
| Rated AC Output Active Power (kW)                  | 60                                                                                           | 70          | 75          | 80          |
| Max. AC Output Apparent Power (kVA)                | 66                                                                                           | 77          | 82.5        | 88          |
| Rated AC Output Current (A)                        | 90.9/87                                                                                      | 106.1/101.5 | 113.6/108.7 | 121.2/115.9 |
| Max. AC Output Current (A)                         | 100/95.7                                                                                     | 116.7/111.6 | 125/119.6   | 133.3/127.5 |
| Rated output voltage                               | 220/380V, 230/400V    0.85Un-1.1Un    3L/N/PE                                                |             |             |             |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                                                           |             |             |             |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                   |             |             |             |
| Total Current Harmonic Distortion THDi             | <3%                                                                                          |             |             |             |
| DC Injection Current                               | <0.5%In                                                                                      |             |             |             |
| Efficiency                                         |                                                                                              |             |             |             |
| Max. Efficiency                                    | 98.6%                                                                                        | 98.7%       |             |             |
| Euro Efficiency                                    | 98.0%                                                                                        | 98.1%       |             |             |
| MPPT Efficiency                                    | >99%                                                                                         |             |             |             |
| Equipment Protection                               |                                                                                              |             |             |             |
| DC Reverse Polarity Protection                     | Yes                                                                                          |             |             |             |
| AC Output Overcurrent Protection                   | Yes                                                                                          |             |             |             |
| AC Output Overvoltage Protection                   | Yes                                                                                          |             |             |             |
| AC Output Short Circuit Protection                 | Yes                                                                                          |             |             |             |
| Thermal Protection                                 | Yes                                                                                          |             |             |             |
| Insulation Impedance Detection                     | Yes                                                                                          |             |             |             |
| DC Component Monitoring                            | Yes                                                                                          |             |             |             |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                                                                     |             |             |             |
| Anti-islanding Protection                          | Yes                                                                                          |             |             |             |
| Residual Current Detection                         | Yes                                                                                          |             |             |             |
| DC Switch                                          | Yes                                                                                          |             |             |             |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                     |             |             |             |
| Interface                                          |                                                                                              |             |             |             |
| LCD/LED Display                                    | LCD 240 × 160                                                                                |             |             |             |
| Communication Interface                            | RS485/RS232 /WiFi/LAN                                                                        |             |             |             |
| General Data                                       |                                                                                              |             |             |             |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                                                                 |             |             |             |
| Permissible Ambient Humidity                       | 0-100%                                                                                       |             |             |             |
| Permissible Altitude                               | 4000m                                                                                        |             |             |             |
| Noise (dB)                                         | ≤55                                                                                          |             |             |             |
| Ingress Protection(IP) Rating                      | IP 65                                                                                        |             |             |             |
| Inverter Topology                                  | Non-Isolated                                                                                 |             |             |             |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                      |             |             |             |
| Cabinet Size (WxHxD mm)                            | 698×613×236.5 (Excluding Connectors and Brackets)                                            |             |             |             |
| Weight (kg)                                        | 53.7                                                                                         |             |             |             |
| Warranty                                           | 5 Years                                                                                      |             |             |             |
| Type of Cooling                                    | Intelligent Air Cooling                                                                      |             |             |             |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                       |             |             |             |

# Three Phase String Inverter

SUN-70/75/80/90/100/110K-G03



### Efficient

- Max. 6 MPP trackers, Max. efficiency up to 98.8%



### Adaptive

- Zero export application, VSG application
- Wide output voltage range



### Intelligent

- String intelligent monitoring (optional)



### Reliable

- Anti-PID function (Optional)
- Type II DC/AC SPD

| Model                                              | SUN-70K-G03                                            | SUN-75K-G03 | SUN-80K-G03 | SUN-90K-G03       | SUN-100K-G03 | SUN-110K-G03 |
|----------------------------------------------------|--------------------------------------------------------|-------------|-------------|-------------------|--------------|--------------|
| PV String Input Data                               |                                                        |             |             |                   |              |              |
| Max. PV Input Power (kW)                           | 91                                                     | 97.5        | 104         | 135               | 150          | 150          |
| Max. PV Input Voltage (V)                          | 1000                                                   |             |             |                   |              |              |
| Start-up Voltage (V)                               | 250                                                    |             |             |                   |              |              |
| MPPT Voltage Range (V)                             | 200-850                                                |             |             |                   |              |              |
| Rated PV Input Voltage (V)                         | 600                                                    |             |             |                   |              |              |
| Max. Operating PV Input Current (A)                | 40+40+40+40                                            |             |             | 40+40+40+40+40+40 |              |              |
| Max. Input Short Circuit Current (A)               | 60+60+60+60                                            |             |             | 60+60+60+60+60+60 |              |              |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 4/4+4+4+4                                              |             |             | 6/4+4+4+4+4+4     |              |              |
| AC Output Side                                     |                                                        |             |             |                   |              |              |
| Rated AC Output Active Power (kW)                  | 70                                                     | 75          | 80          | 90                | 100          | 110          |
| Max. AC Output Apparent Power (kVA)                | 77                                                     | 82.5        | 88          | 99                | 110          | 121          |
| Rated AC Output Current (A)                        | 106.1/101.5                                            | 113.6/108.7 | 121.2/115.9 | 136.4/130.4       | 151.5/144.9  | 166.7/159.4  |
| Max. AC Output Current (A)                         | 116.7/111.6                                            | 125/119.6   | 133.3/127.5 | 150/143.5         | 166.7/159.4  | 183.3/175.4  |
| Rated output voltage                               | 220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE                |             |             |                   |              |              |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |             |             |                   |              |              |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |             |             |                   |              |              |
| Total Current Harmonic Distortion THDi             | <3%                                                    |             |             |                   |              |              |
| DC Injection Current                               | <0.5%In                                                |             |             |                   |              |              |
| Efficiency                                         |                                                        |             |             |                   |              |              |
| Max. Efficiency                                    | 98.7%                                                  |             |             | 98.8%             |              |              |
| Euro Efficiency                                    | 98.1%                                                  |             |             | 98.2%             |              |              |
| MPPT Efficiency                                    | >99%                                                   |             |             |                   |              |              |
| Equipment Protection                               |                                                        |             |             |                   |              |              |
| DC Reverse Polarity Protection                     | Yes                                                    |             |             |                   |              |              |
| AC Output Overcurrent Protection                   | Yes                                                    |             |             |                   |              |              |
| AC Output Overvoltage Protection                   | Yes                                                    |             |             |                   |              |              |
| AC Output Short Circuit Protection                 | Yes                                                    |             |             |                   |              |              |
| Thermal Protection                                 | Yes                                                    |             |             |                   |              |              |
| Insulation Impedance Detection                     | Yes                                                    |             |             |                   |              |              |
| DC Component Monitoring                            | Yes                                                    |             |             |                   |              |              |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |             |             |                   |              |              |
| Anti-islanding Protection                          | Yes                                                    |             |             |                   |              |              |
| Residual Current Detection                         | Yes                                                    |             |             |                   |              |              |
| DC Switch                                          | Yes                                                    |             |             |                   |              |              |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |             |             |                   |              |              |
| Interface                                          |                                                        |             |             |                   |              |              |
| LCD/LED Display                                    | LCD 240 × 160                                          |             |             |                   |              |              |
| Communication Interface                            | RS485/RS232 /WiFi/LAN                                  |             |             |                   |              |              |
| General Data                                       |                                                        |             |             |                   |              |              |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                           |             |             |                   |              |              |
| Permissible Ambient Humidity                       | 0-100%                                                 |             |             |                   |              |              |
| Permissible Altitude                               | 4000m                                                  |             |             |                   |              |              |
| Noise (dB)                                         | ≤55                                                    |             |             |                   |              |              |
| Ingress Protection(IP) Rating                      | IP 65                                                  |             |             |                   |              |              |
| Inverter Topology                                  | Non-Isolated                                           |             |             |                   |              |              |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |             |             |                   |              |              |
| Cabinet Size (WxHxD mm)                            | 824×516×312.7 (Excluding Connectors and Brackets)      |             |             |                   |              |              |
| Weight (kg)                                        | 81                                                     |             |             |                   |              |              |
| Warranty                                           | 5 Years                                                |             |             |                   |              |              |
| Type of Cooling                                    | Intelligent Air Cooling                                |             |             |                   |              |              |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |             |             |                   |              |              |

# Three Phase String Inverter

SUN-120/125/130/135/136K-G01P3-EU-AM8



### Efficient

- 8 MPP trackers, Max. efficiency up to 98.8%



### Intelligent

- String intelligent monitoring (optional)



### Adaptive

- Zero export application, VSG application
- Wide output voltage range



### Reliable

- Anti-PID function (Optional)
- Type II DC/AC SPD

| Model                                              | SUN-120K-G01P3<br>-EU-AM8                              | SUN-125K-G01P3<br>-EU-AM8 | SUN-130K-G01P3<br>-EU-AM8 | SUN-135K-G01P3<br>-EU-AM8 | SUN-136K-G01P3<br>-EU-AM8 |
|----------------------------------------------------|--------------------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| PV String Input Data                               |                                                        |                           |                           |                           |                           |
| Max. PV Input Power (kW)                           | 180                                                    | 187.5                     | 195                       | 202.5                     | 204                       |
| Max. PV Input Voltage (V)                          | 1100                                                   |                           |                           |                           |                           |
| Start-up Voltage (V)                               | 250                                                    |                           |                           |                           |                           |
| MPPT Voltage Range (V)                             | 200-1000                                               |                           |                           |                           |                           |
| Rated PV Input Voltage (V)                         | 600                                                    |                           |                           |                           |                           |
| Max. Operating PV Input Current (A)                | 40+40+40+40+40+40+40+40                                |                           |                           |                           |                           |
| Max. Input Short Circuit Current (A)               | 60+60+60+60+60+60+60+60                                |                           |                           |                           |                           |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 8/4+4+4+4+4+4+4+4                                      |                           |                           |                           |                           |
| AC Output Side                                     |                                                        |                           |                           |                           |                           |
| Rated AC Output Active Power (kW)                  | 120                                                    | 125                       | 130                       | 135                       | 136                       |
| Max. AC Output Apparent Power (kVA)                | 132                                                    | 135                       | 135                       | 135                       | 136                       |
| Rated AC Output Current (A)                        | 181.9/174                                              | 189.4/181.2               | 197/188.5                 | 204.6/195.7               | 206.1/197.2               |
| Max. AC Output Current (A)                         | 200/191.4                                              | 204.6/195.7               | 204.6/195.7               | 204.6/195.7               | 206.1/197.2               |
| Rated output voltage                               | 220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE                |                           |                           |                           |                           |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |                           |                           |                           |                           |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |                           |                           |                           |                           |
| Total Current Harmonic Distortion THDi             | <3%                                                    |                           |                           |                           |                           |
| DC Injection Current                               | <0.5%In                                                |                           |                           |                           |                           |
| Efficiency                                         |                                                        |                           |                           |                           |                           |
| Max. Efficiency                                    | 98.8%                                                  |                           |                           |                           |                           |
| Euro Efficiency                                    | 98.2%                                                  |                           |                           |                           |                           |
| MPPT Efficiency                                    | >99%                                                   |                           |                           |                           |                           |
| Equipment Protection                               |                                                        |                           |                           |                           |                           |
| DC Reverse Polarity Protection                     | Yes                                                    |                           |                           |                           |                           |
| AC Output Overcurrent Protection                   | Yes                                                    |                           |                           |                           |                           |
| AC Output Overvoltage Protection                   | Yes                                                    |                           |                           |                           |                           |
| AC Output Short Circuit Protection                 | Yes                                                    |                           |                           |                           |                           |
| Thermal Protection                                 | Yes                                                    |                           |                           |                           |                           |
| Insulation Impedance Detection                     | Yes                                                    |                           |                           |                           |                           |
| DC Component Monitoring                            | Yes                                                    |                           |                           |                           |                           |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |                           |                           |                           |                           |
| Anti-islanding Protection                          | Yes                                                    |                           |                           |                           |                           |
| Residual Current Detection                         | Yes                                                    |                           |                           |                           |                           |
| DC Switch                                          | Yes                                                    |                           |                           |                           |                           |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |                           |                           |                           |                           |
| Interface                                          |                                                        |                           |                           |                           |                           |
| LCD/LED Display                                    | LCD 240 × 160                                          |                           |                           |                           |                           |
| Communication Interface                            | RS485/RS232 /WiFi/LAN                                  |                           |                           |                           |                           |
| General Data                                       |                                                        |                           |                           |                           |                           |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                           |                           |                           |                           |                           |
| Permissible Ambient Humidity                       | 0-100%                                                 |                           |                           |                           |                           |
| Permissible Altitude                               | 4000m                                                  |                           |                           |                           |                           |
| Noise (dB)                                         | ≤65                                                    |                           |                           |                           |                           |
| Ingress Protection(IP) Rating                      | IP 65                                                  |                           |                           |                           |                           |
| Inverter Topology                                  | Non-Isolated                                           |                           |                           |                           |                           |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |                           |                           |                           |                           |
| Cabinet Size (WxHxD mm)                            | 1006×516×325.5 (Excluding Connectors and Brackets)     |                           |                           |                           |                           |
| Weight (kg)                                        | 103                                                    |                           |                           |                           |                           |
| Warranty                                           | 5 Years                                                |                           |                           |                           |                           |
| Type of Cooling                                    | Intelligent Air Cooling                                |                           |                           |                           |                           |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                           |                           |                           |                           |

# Three Phase String Inverter(LV)

SUN-6/8K-G06P3-EU-BM2-LV-P1



### Reliable

- Anti-PID function (Optional)



### Efficient

- 2 MPP trackers, Max. efficiency up to 98.3%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system



### Intelligent

- String intelligent monitoring (optional)



### Adaptive

- Zero export application, VSG application
  - Wide output voltage range

| Model                                              | SUN-6K-G06P3-EU-BM2-LV-P1                       |  | SUN-8K-G06P3-EU-BM2-LV-P1                              |  |
|----------------------------------------------------|-------------------------------------------------|--|--------------------------------------------------------|--|
| PV String Input Data                               |                                                 |  |                                                        |  |
| Max. PV Input Power (kW)                           | 9                                               |  | 12                                                     |  |
| Max. PV Input Voltage (V)                          |                                                 |  | 800                                                    |  |
| Start-up Voltage (V)                               |                                                 |  | 250                                                    |  |
| MPPT Voltage Range (V)                             |                                                 |  | 200-700                                                |  |
| Rated PV Input Voltage (V)                         |                                                 |  | 500                                                    |  |
| Max. Operating PV Input Current (A)                | 20+20                                           |  | 20+26                                                  |  |
| Max. Input Short Circuit Current (A)               | 30+30                                           |  | 30+39                                                  |  |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                           |  | 2/1+2                                                  |  |
| AC Output Side                                     |                                                 |  |                                                        |  |
| Rated AC Output Active Power (kW)                  | 6                                               |  | 8                                                      |  |
| Max. AC Output Apparent Power (kVA)                | 6                                               |  | 8                                                      |  |
| Rated AC Output Current (A)                        | 15.8/15.1                                       |  | 21/20.1                                                |  |
| Max. AC Output Current (A)                         | 15.8/15.1                                       |  | 21/20.1                                                |  |
| Rated output voltage                               | 127V/220V, 133V/230V                            |  | 0.85Un-1.1Un 3L/N/PE                                   |  |
| Rated Output Grid Frequency/Range(Hz)              |                                                 |  | 50/45-55, 60/55-65                                     |  |
| Power Factor Adjustment Range                      |                                                 |  | 0.8 leading to 0.8 lagging                             |  |
| Total Current Harmonic Distortion THDi             |                                                 |  | <3%                                                    |  |
| DC Injection Current                               |                                                 |  | <0.5%In                                                |  |
| Efficiency                                         |                                                 |  |                                                        |  |
| Max. Efficiency                                    |                                                 |  | 98.3%                                                  |  |
| MPPT Efficiency                                    |                                                 |  | >99%                                                   |  |
| Equipment Protection                               |                                                 |  |                                                        |  |
| DC Reverse Polarity Protection                     |                                                 |  | Yes                                                    |  |
| AC Output Overcurrent Protection                   |                                                 |  | Yes                                                    |  |
| AC Output Overvoltage Protection                   |                                                 |  | Yes                                                    |  |
| AC Output Short Circuit Protection                 |                                                 |  | Yes                                                    |  |
| Thermal Protection                                 |                                                 |  | Yes                                                    |  |
| Insulation Impedance Detection                     |                                                 |  | Yes                                                    |  |
| DC Component Monitoring                            |                                                 |  | Yes                                                    |  |
| Arc Fault Circuit Interrupter (AFCI)               |                                                 |  | Optional                                               |  |
| Anti-islanding Protection                          |                                                 |  | Yes                                                    |  |
| Residual Current Detection                         |                                                 |  | Yes                                                    |  |
| DC Switch                                          |                                                 |  | Yes                                                    |  |
| Surge Protection Level                             |                                                 |  | TYPE II(DC), TYPE II(AC)                               |  |
| Interface                                          |                                                 |  |                                                        |  |
| LCD/LED Display                                    |                                                 |  | LCD1602                                                |  |
| Communication Interface                            |                                                 |  | RS485/RS232 /WiFi/LAN                                  |  |
| General Data                                       |                                                 |  |                                                        |  |
| Operating Temperature Range (°C)                   |                                                 |  | -25 to +60°C, >45°C Derating                           |  |
| Permissible Ambient Humidity                       |                                                 |  | 0-100%                                                 |  |
| Permissible Altitude                               |                                                 |  | 4000m                                                  |  |
| Noise (dB)                                         |                                                 |  | <45                                                    |  |
| Ingress Protection(IP) Rating                      |                                                 |  | IP 65                                                  |  |
| Inverter Topology                                  |                                                 |  | Non-Isolated                                           |  |
| Over Voltage Category                              |                                                 |  | OVC II(DC), OVC III(AC)                                |  |
| Cabinet Size (WxHxD mm)                            | 283×525×178 (Excluding Connectors and Brackets) |  | 283×525×188 (Excluding Connectors and Brackets)        |  |
| Weight (kg)                                        | 28.7                                            |  | 12                                                     |  |
| Warranty                                           |                                                 |  | 5 Years                                                |  |
| Type of Cooling                                    |                                                 |  | Natural Cooling                                        |  |
| Safety EMC/Standard                                |                                                 |  | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |  |

# Three Phase String Inverter(LV)

SUN-10/12/15K-G05-LV



### Reliable

- Anti-PID function (Optional)



### Efficient

- 2 MPP trackers, Max. efficiency up to 98.5%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system



### Intelligent

- String intelligent monitoring (optional)



### Adaptive

- Zero export application, VSG application
  - Wide output voltage range

| Model                                              | SUN-10K-G05-LV |  | SUN-12K-G05-LV                                         |              | SUN-15K-G05-LV |  |
|----------------------------------------------------|----------------|--|--------------------------------------------------------|--------------|----------------|--|
| PV String Input Data                               |                |  |                                                        |              |                |  |
| Max. PV Input Power (kW)                           | 27             |  | 30                                                     |              | 31.5           |  |
| Max. PV Input Voltage (V)                          |                |  | 800                                                    |              |                |  |
| Start-up Voltage (V)                               |                |  | 250                                                    |              |                |  |
| MPPT Voltage Range (V)                             |                |  | 200-700                                                |              |                |  |
| Rated PV Input Voltage (V)                         |                |  | 350                                                    |              |                |  |
| Max. Operating PV Input Current (A)                |                |  | 26+26                                                  |              |                |  |
| Max. Input Short Circuit Current (A)               |                |  | 39+39                                                  |              |                |  |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker |                |  | 2/2+2                                                  |              |                |  |
| AC Output Side                                     |                |  |                                                        |              |                |  |
| Rated AC Output Active Power (kW)                  | 10             |  | 12                                                     |              | 15             |  |
| Max. AC Output Apparent Power (kVA)                | 10             |  | 12                                                     |              | 15             |  |
| Rated AC Output Current (A)                        | 26.3/25.1      |  | 31.5/30.1                                              |              | 39.4/37.6      |  |
| Max. AC Output Current (A)                         | 26.3/25.1      |  | 31.5/30.1                                              |              | 39.4/37.6      |  |
| Rated output voltage                               |                |  | 127V/220V, 133V/230V                                   | 0.85Un-1.1Un | 3L/N/PE        |  |
| Rated Output Grid Frequency/Range(Hz)              |                |  | 50/45-55, 60/55-65                                     |              |                |  |
| Power Factor Adjustment Range                      |                |  | 0.8 leading to 0.8 lagging                             |              |                |  |
| Total Current Harmonic Distortion THDi             |                |  | <3%                                                    |              |                |  |
| DC Injection Current                               |                |  | <0.5%In                                                |              |                |  |
| Efficiency                                         |                |  |                                                        |              |                |  |
| Max. Efficiency                                    |                |  | 98.5%                                                  |              |                |  |
| MPPT Efficiency                                    |                |  | >99%                                                   |              |                |  |
| Equipment Protection                               |                |  |                                                        |              |                |  |
| DC Reverse Polarity Protection                     |                |  | Yes                                                    |              |                |  |
| AC Output Overcurrent Protection                   |                |  | Yes                                                    |              |                |  |
| AC Output Overvoltage Protection                   |                |  | Yes                                                    |              |                |  |
| AC Output Short Circuit Protection                 |                |  | Yes                                                    |              |                |  |
| Thermal Protection                                 |                |  | Yes                                                    |              |                |  |
| Insulation Impedance Detection                     |                |  | Yes                                                    |              |                |  |
| DC Component Monitoring                            |                |  | Yes                                                    |              |                |  |
| Arc Fault Circuit Interrupter (AFCI)               |                |  | Optional                                               |              |                |  |
| Anti-islanding Protection                          |                |  | Yes                                                    |              |                |  |
| Residual Current Detection                         |                |  | Yes                                                    |              |                |  |
| DC Switch                                          |                |  | Yes                                                    |              |                |  |
| Surge Protection Level                             |                |  | TYPE II(DC), TYPE II(AC)                               |              |                |  |
| Interface                                          |                |  |                                                        |              |                |  |
| LCD/LED Display                                    |                |  | LCD1602                                                |              |                |  |
| Communication Interface                            |                |  | RS485/RS232 /WiFi/LAN                                  |              |                |  |
| General Data                                       |                |  |                                                        |              |                |  |
| Operating Temperature Range (°C)                   |                |  | -25 to +60°C, >45°C Derating                           |              |                |  |
| Permissible Ambient Humidity                       |                |  | 0-100%                                                 |              |                |  |
| Permissible Altitude                               |                |  | 4000m                                                  |              |                |  |
| Noise (dB)                                         |                |  | ≤50                                                    |              |                |  |
| Ingress Protection(IP) Rating                      |                |  | IP 65                                                  |              |                |  |
| Inverter Topology                                  |                |  | Non-Isolated                                           |              |                |  |
| Over Voltage Category                              |                |  | OVC II(DC), OVC III(AC)                                |              |                |  |
| Cabinet Size (WxHxD mm)                            |                |  | 362×527×220 (Excluding Connectors and Brackets)        |              |                |  |
| Weight (kg)                                        |                |  | 20                                                     |              |                |  |
| Warranty                                           |                |  | 5 Years                                                |              |                |  |
| Type of Cooling                                    |                |  | Intelligent Air Cooling                                |              |                |  |
| Safety EMC/Standard                                |                |  | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |              |                |  |

# Three Phase String Inverter(LV)

SUN-18/20/21K-G04-LV



## Reliable

- Anti-PID function (Optional)



## Efficient

- 2 MPP trackers, Max. efficiency up to 98.6%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system



## Intelligent

- String intelligent monitoring (optional)



## Adaptive

- Zero export application, VSG application
  - Wide output voltage range

| Model                                              | SUN-18K-G04-LV |  | SUN-20K-G04-LV                                         |              | SUN-21K-G04-LV |  |
|----------------------------------------------------|----------------|--|--------------------------------------------------------|--------------|----------------|--|
| PV String Input Data                               |                |  |                                                        |              |                |  |
| Max. PV Input Power (kW)                           | 27             |  | 30                                                     |              | 31.5           |  |
| Max. PV Input Voltage (V)                          |                |  | 800                                                    |              |                |  |
| Start-up Voltage (V)                               |                |  | 250                                                    |              |                |  |
| MPPT Voltage Range (V)                             |                |  | 200-700                                                |              |                |  |
| Rated PV Input Voltage (V)                         |                |  | 350                                                    |              |                |  |
| Max. Operating PV Input Current (A)                |                |  | 40+40                                                  |              |                |  |
| Max. Input Short Circuit Current (A)               |                |  | 60+60                                                  |              |                |  |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker |                |  | 2/3+3                                                  |              |                |  |
| AC Output Side                                     |                |  |                                                        |              |                |  |
| Rated AC Output Active Power (kW)                  | 18             |  | 20                                                     |              | 21             |  |
| Max. AC Output Apparent Power (kVA)                | 18             |  | 20                                                     |              | 21             |  |
| Rated AC Output Current (A)                        | 47.3/45.2      |  | 52.5/50.2                                              |              | 55.2/52.7      |  |
| Max. AC Output Current (A)                         | 47.3/45.2      |  | 52.5/50.2                                              |              | 55.2/52.7      |  |
| Rated output voltage                               |                |  | 127V/220V, 133V/230V                                   | 0.85Un-1.1Un | 3L/N/PE        |  |
| Rated Output Grid Frequency/Range(Hz)              |                |  | 50/45-55, 60/55-65                                     |              |                |  |
| Power Factor Adjustment Range                      |                |  | 0.8 leading to 0.8 lagging                             |              |                |  |
| Total Current Harmonic Distortion THDi             |                |  | <3%                                                    |              |                |  |
| DC Injection Current                               |                |  | <0.5%In                                                |              |                |  |
| Efficiency                                         |                |  |                                                        |              |                |  |
| Max. Efficiency                                    |                |  | 98.6%                                                  |              |                |  |
| MPPT Efficiency                                    |                |  | >99%                                                   |              |                |  |
| Equipment Protection                               |                |  |                                                        |              |                |  |
| DC Reverse Polarity Protection                     |                |  | Yes                                                    |              |                |  |
| AC Output Overcurrent Protection                   |                |  | Yes                                                    |              |                |  |
| AC Output Overvoltage Protection                   |                |  | Yes                                                    |              |                |  |
| AC Output Short Circuit Protection                 |                |  | Yes                                                    |              |                |  |
| Thermal Protection                                 |                |  | Yes                                                    |              |                |  |
| Insulation Impedance Detection                     |                |  | Yes                                                    |              |                |  |
| DC Component Monitoring                            |                |  | Yes                                                    |              |                |  |
| Arc Fault Circuit Interrupter (AFCI)               |                |  | Optional                                               |              |                |  |
| Anti-islanding Protection                          |                |  | Yes                                                    |              |                |  |
| Residual Current Detection                         |                |  | Yes                                                    |              |                |  |
| DC Switch                                          |                |  | Yes                                                    |              |                |  |
| Surge Protection Level                             |                |  | TYPE II(DC), TYPE II(AC)                               |              |                |  |
| Interface                                          |                |  |                                                        |              |                |  |
| LCD/LED Display                                    |                |  | LCD1602                                                |              |                |  |
| Communication Interface                            |                |  | RS485/RS232 /WiFi/LAN                                  |              |                |  |
| General Data                                       |                |  |                                                        |              |                |  |
| Operating Temperature Range (°C)                   |                |  | -25 to +60°C, >45°C Derating                           |              |                |  |
| Permissible Ambient Humidity                       |                |  | 0-100%                                                 |              |                |  |
| Permissible Altitude                               |                |  | 4000m                                                  |              |                |  |
| Noise (dB)                                         |                |  | ≤60                                                    |              |                |  |
| Ingress Protection(IP) Rating                      |                |  | IP 65                                                  |              |                |  |
| Inverter Topology                                  |                |  | Non-Isolated                                           |              |                |  |
| Over Voltage Category                              |                |  | OVC II(DC), OVC III(AC)                                |              |                |  |
| Cabinet Size (WxHxD mm)                            |                |  | 330×572×206 (Excluding Connectors and Brackets)        |              |                |  |
| Weight (kg)                                        |                |  | 28.7                                                   |              |                |  |
| Warranty                                           |                |  | 5 Years                                                |              |                |  |
| Type of Cooling                                    |                |  | Intelligent Air Cooling                                |              |                |  |
| Safety EMC/Standard                                |                |  | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |              |                |  |

# Three Phase String Inverter(LV)

SUN-23/25/30K-G04-LV



### Reliable

- Anti-PID function (Optional)



### Efficient

- Max. 4 MPP trackers, Max. efficiency up to 98.7%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system



### Intelligent

- String intelligent monitoring (optional)



### Adaptive

- Zero export application, VSG application
- Wide output voltage range

| Model                                              | SUN-23K-G04-LV       |  | SUN-25K-G04-LV                                         |  | SUN-30K-G04-LV |  |
|----------------------------------------------------|----------------------|--|--------------------------------------------------------|--|----------------|--|
| PV String Input Data                               |                      |  |                                                        |  |                |  |
| Max. PV Input Power (kW)                           | 36.8                 |  | 40                                                     |  | 48             |  |
| Max. PV Input Voltage (V)                          |                      |  | 800                                                    |  |                |  |
| Start-up Voltage (V)                               |                      |  | 250                                                    |  |                |  |
| MPPT Voltage Range (V)                             |                      |  | 200-700                                                |  |                |  |
| Rated PV Input Voltage (V)                         |                      |  | 400                                                    |  |                |  |
| Max. Operating PV Input Current (A)                | 40+40+40             |  |                                                        |  | 40+40+40+40    |  |
| Max. Input Short Circuit Current (A)               | 60+60+60             |  |                                                        |  | 60+60+60+60    |  |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/3+3+3              |  |                                                        |  | 4/3+3+3+3      |  |
| AC Output Side                                     |                      |  |                                                        |  |                |  |
| Rated AC Output Active Power (kW)                  | 23                   |  | 25                                                     |  | 30             |  |
| Max. AC Output Apparent Power (kVA)                | 23                   |  | 25                                                     |  | 30             |  |
| Rated AC Output Current (A)                        | 60.4/57.7            |  | 65.7/62.7                                              |  | 78.8/75.2      |  |
| Max. AC Output Current (A)                         | 60.4/57.7            |  | 65.7/62.7                                              |  | 78.8/75.2      |  |
| Rated output voltage                               | 127V/220V, 133V/230V |  | 0.85Un-1.1Un                                           |  | 3L/N/PE        |  |
| Rated Output Grid Frequency/Range(Hz)              |                      |  | 50/45-55, 60/55-65                                     |  |                |  |
| Power Factor Adjustment Range                      |                      |  | 0.8 leading to 0.8 lagging                             |  |                |  |
| Total Current Harmonic Distortion THDi             |                      |  | <3%                                                    |  |                |  |
| DC Injection Current                               |                      |  | <0.5%In                                                |  |                |  |
| Efficiency                                         |                      |  |                                                        |  |                |  |
| Max. Efficiency                                    |                      |  | 98.7%                                                  |  |                |  |
| MPPT Efficiency                                    |                      |  | >99%                                                   |  |                |  |
| Equipment Protection                               |                      |  |                                                        |  |                |  |
| DC Reverse Polarity Protection                     |                      |  | Yes                                                    |  |                |  |
| AC Output Overcurrent Protection                   |                      |  | Yes                                                    |  |                |  |
| AC Output Overvoltage Protection                   |                      |  | Yes                                                    |  |                |  |
| AC Output Short Circuit Protection                 |                      |  | Yes                                                    |  |                |  |
| Thermal Protection                                 |                      |  | Yes                                                    |  |                |  |
| Insulation Impedance Detection                     |                      |  | Yes                                                    |  |                |  |
| DC Component Monitoring                            |                      |  | Yes                                                    |  |                |  |
| Arc Fault Circuit Interrupter (AFCI)               |                      |  | Optional                                               |  |                |  |
| Anti-islanding Protection                          |                      |  | Yes                                                    |  |                |  |
| Residual Current Detection                         |                      |  | Yes                                                    |  |                |  |
| DC Switch                                          |                      |  | Yes                                                    |  |                |  |
| Surge Protection Level                             |                      |  | TYPE II(DC), TYPE II(AC)                               |  |                |  |
| Interface                                          |                      |  |                                                        |  |                |  |
| LCD/LED Display                                    |                      |  | LCD1602                                                |  |                |  |
| Communication Interface                            |                      |  | RS485/RS232 /WiFi/LAN                                  |  |                |  |
| General Data                                       |                      |  |                                                        |  |                |  |
| Operating Temperature Range (°C)                   |                      |  | -25 to +60°C, >45°C Derating                           |  |                |  |
| Permissible Ambient Humidity                       |                      |  | 0-100%                                                 |  |                |  |
| Permissible Altitude                               |                      |  | 4000m                                                  |  |                |  |
| Noise (dB)                                         |                      |  | <65                                                    |  |                |  |
| Ingress Protection(IP) Rating                      |                      |  | IP 65                                                  |  |                |  |
| Inverter Topology                                  |                      |  | Non-Isolated                                           |  |                |  |
| Over Voltage Category                              |                      |  | OVC II(DC), OVC III(AC)                                |  |                |  |
| Cabinet Size (WxHxD mm)                            |                      |  | 434×570×243 (Excluding Connectors and Brackets)        |  |                |  |
| Weight (kg)                                        |                      |  | 39                                                     |  |                |  |
| Warranty                                           |                      |  | 5 Years                                                |  |                |  |
| Type of Cooling                                    |                      |  | Intelligent Air Cooling                                |  |                |  |
| Safety EMC/Standard                                |                      |  | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |  |                |  |

# Three Phase String Inverter(LV)

SUN-33/35/40/45/50K-G04P3-EU-AM4-LV



## Reliable

- Anti-PID function (Optional)



## Efficient

- 4 MPP trackers, Max. efficiency up to 98.7%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system



## Intelligent

- String intelligent monitoring (optional)



## Adaptive

- Zero export application, VSG application
- Wide output voltage range

| Model                                              | SUN-33K-G04P3<br>-EU-AM4-LV                            | SUN-35K-G04P3<br>-EU-AM4-LV | SUN-40K-G04P3<br>-EU-AM4-LV | SUN-45K-G04P3<br>-EU-AM4-LV | SUN-50K-G04P3<br>-EU-AM4-LV |
|----------------------------------------------------|--------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| PV String Input Data                               |                                                        |                             |                             |                             |                             |
| Max. PV Input Power (kW)                           | 49.5                                                   | 52.5                        | 60                          | 67.5                        | 75                          |
| Max. PV Input Voltage (V)                          | 800                                                    |                             |                             |                             |                             |
| Start-up Voltage (V)                               | 250                                                    |                             |                             |                             |                             |
| MPPT Voltage Range (V)                             | 200-700                                                |                             |                             |                             |                             |
| Rated PV Input Voltage (V)                         | 500                                                    |                             |                             |                             |                             |
| Max. Operating PV Input Current (A)                | 40+40+40+40                                            |                             |                             |                             |                             |
| Max. Input Short Circuit Current (A)               | 60+60+60+60                                            |                             |                             |                             |                             |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 4/3+3+3+3                                              |                             | 4/4+4+4+4                   |                             |                             |
| AC Output Side                                     |                                                        |                             |                             |                             |                             |
| Rated AC Output Active Power (kW)                  | 33                                                     | 35                          | 40                          | 45                          | 50                          |
| Max. AC Output Apparent Power (kVA)                | 33                                                     | 35                          | 40                          | 45                          | 50                          |
| Rated AC Output Current (A)                        | 86.7/82.8                                              | 91.9/87.8                   | 105/100.3                   | 118.2/112.8                 | 131.3/125.4                 |
| Max. AC Output Current (A)                         | 86.7/82.8                                              | 91.9/87.8                   | 105/100.3                   | 118.2/112.8                 | 131.3/125.4                 |
| Rated output voltage                               | 127V/220V, 133V/230V 0.85Un-1.1Un 3L/N/PE              |                             |                             |                             |                             |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |                             |                             |                             |                             |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |                             |                             |                             |                             |
| Total Current Harmonic Distortion THDi             | <3%                                                    |                             |                             |                             |                             |
| DC Injection Current                               | <0.5%In                                                |                             |                             |                             |                             |
| Efficiency                                         |                                                        |                             |                             |                             |                             |
| Max. Efficiency                                    | 98.6%                                                  |                             | 98.7%                       |                             |                             |
| MPPT Efficiency                                    | >99%                                                   |                             |                             |                             |                             |
| Equipment Protection                               |                                                        |                             |                             |                             |                             |
| DC Reverse Polarity Protection                     | Yes                                                    |                             |                             |                             |                             |
| AC Output Overcurrent Protection                   | Yes                                                    |                             |                             |                             |                             |
| AC Output Overvoltage Protection                   | Yes                                                    |                             |                             |                             |                             |
| AC Output Short Circuit Protection                 | Yes                                                    |                             |                             |                             |                             |
| Thermal Protection                                 | Yes                                                    |                             |                             |                             |                             |
| Insulation Impedance Detection                     | Yes                                                    |                             |                             |                             |                             |
| DC Component Monitoring                            | Yes                                                    |                             |                             |                             |                             |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |                             |                             |                             |                             |
| Anti-islanding Protection                          | Yes                                                    |                             |                             |                             |                             |
| Residual Current Detection                         | Yes                                                    |                             |                             |                             |                             |
| DC Switch                                          | Yes                                                    |                             |                             |                             |                             |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |                             |                             |                             |                             |
| Interface                                          |                                                        |                             |                             |                             |                             |
| LCD/LED Display                                    | LCD 240 × 160                                          |                             |                             |                             |                             |
| Communication Interface                            | RS485/RS232 /WiFi/LAN                                  |                             |                             |                             |                             |
| General Data                                       |                                                        |                             |                             |                             |                             |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                           |                             |                             |                             |                             |
| Permissible Ambient Humidity                       | 0-100%                                                 |                             |                             |                             |                             |
| Permissible Altitude                               | 4000m                                                  |                             |                             |                             |                             |
| Noise (dB)                                         | ≤55                                                    |                             |                             |                             |                             |
| Ingress Protection(IP) Rating                      | IP 65                                                  |                             |                             |                             |                             |
| Inverter Topology                                  | Non-Isolated                                           |                             |                             |                             |                             |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |                             |                             |                             |                             |
| Cabinet Size (WxHxD mm)                            | 698×613×236.5 (Excluding Connectors and Brackets)      |                             |                             |                             |                             |
| Weight (kg)                                        | 53.7                                                   |                             |                             |                             |                             |
| Warranty                                           | 5 Years                                                |                             |                             |                             |                             |
| Type of Cooling                                    | Intelligent Air Cooling                                |                             |                             |                             |                             |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                             |                             |                             |                             |

# Three Phase String Inverter(LV)

SUN-60/70/75K-G01P3-EU-AM8-LV



### Reliable

- Anti-PID function (Optional)



### Efficient

- 8 MPP trackers, Max. efficiency up to 98.7%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system



### Intelligent

- String intelligent monitoring (optional)



### Adaptive

- Zero export application, VSG application
  - Wide output voltage range

| Model                                              | SUN-60K-G01P3-EU-AM8-LV                                |  | SUN-70K-G01P3-EU-AM8-LV |  | SUN-75K-G01P3-EU-AM8-LV |  |
|----------------------------------------------------|--------------------------------------------------------|--|-------------------------|--|-------------------------|--|
| PV String Input Data                               |                                                        |  |                         |  |                         |  |
| Max. PV Input Power (kW)                           | 90                                                     |  | 105                     |  | 112.5                   |  |
| Max. PV Input Voltage (V)                          |                                                        |  | 800                     |  |                         |  |
| Start-up Voltage (V)                               |                                                        |  | 250                     |  |                         |  |
| MPPT Voltage Range (V)                             |                                                        |  | 200-700                 |  |                         |  |
| Rated PV Input Voltage (V)                         |                                                        |  | 500                     |  |                         |  |
| Max. Operating PV Input Current (A)                |                                                        |  | 40+40+40+40+40+40+40+40 |  |                         |  |
| Max. Input Short Circuit Current (A)               |                                                        |  | 60+60+60+60+60+60+60+60 |  |                         |  |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker |                                                        |  | 8/4+4+4+4+4+4+4+4       |  |                         |  |
| AC Output Side                                     |                                                        |  |                         |  |                         |  |
| Rated AC Output Active Power (kW)                  | 60                                                     |  | 70                      |  | 75                      |  |
| Max. AC Output Apparent Power (kVA)                | 60                                                     |  | 70                      |  | 75                      |  |
| Rated AC Output Current (A)                        | 157.5/150.4                                            |  | 183.8/175.5             |  | 196.9/188               |  |
| Max. AC Output Current (A)                         | 157.5/150.4                                            |  | 183.8/175.5             |  | 196.9/188               |  |
| Rated output voltage                               | 127V/220V, 133V/230V 0.85Un-1.1Un 3L/N/PE              |  |                         |  |                         |  |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |  |                         |  |                         |  |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |  |                         |  |                         |  |
| Total Current Harmonic Distortion THDi             | <3%                                                    |  |                         |  |                         |  |
| DC Injection Current                               | <0.5%In                                                |  |                         |  |                         |  |
| Efficiency                                         |                                                        |  |                         |  |                         |  |
| Max. Efficiency                                    | 98.7%                                                  |  |                         |  |                         |  |
| MPPT Efficiency                                    | >99%                                                   |  |                         |  |                         |  |
| Equipment Protection                               |                                                        |  |                         |  |                         |  |
| DC Reverse Polarity Protection                     | Yes                                                    |  |                         |  |                         |  |
| AC Output Overcurrent Protection                   | Yes                                                    |  |                         |  |                         |  |
| AC Output Overvoltage Protection                   | Yes                                                    |  |                         |  |                         |  |
| AC Output Short Circuit Protection                 | Yes                                                    |  |                         |  |                         |  |
| Thermal Protection                                 | Yes                                                    |  |                         |  |                         |  |
| Insulation Impedance Detection                     | Yes                                                    |  |                         |  |                         |  |
| DC Component Monitoring                            | Yes                                                    |  |                         |  |                         |  |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |  |                         |  |                         |  |
| Anti-islanding Protection                          | Yes                                                    |  |                         |  |                         |  |
| Residual Current Detection                         | Yes                                                    |  |                         |  |                         |  |
| DC Switch                                          | Yes                                                    |  |                         |  |                         |  |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |  |                         |  |                         |  |
| Interface                                          |                                                        |  |                         |  |                         |  |
| LCD/LED Display                                    | LCD 240 × 160                                          |  |                         |  |                         |  |
| Communication Interface                            | RS485/RS232 /WiFi/LAN                                  |  |                         |  |                         |  |
| General Data                                       |                                                        |  |                         |  |                         |  |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                           |  |                         |  |                         |  |
| Permissible Ambient Humidity                       | 0-100%                                                 |  |                         |  |                         |  |
| Permissible Altitude                               | 4000m                                                  |  |                         |  |                         |  |
| Noise (dB)                                         | ≤55                                                    |  |                         |  |                         |  |
| Ingress Protection(IP) Rating                      | IP 65                                                  |  |                         |  |                         |  |
| Inverter Topology                                  | Non-Isolated                                           |  |                         |  |                         |  |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |  |                         |  |                         |  |
| Cabinet Size (WxHxD mm)                            | 1006×516×325.5 (Excluding Connectors and Brackets)     |  |                         |  |                         |  |
| Weight (kg)                                        | 103                                                    |  |                         |  |                         |  |
| Warranty                                           | 5 Years                                                |  |                         |  |                         |  |
| Type of Cooling                                    | Intelligent Air Cooling                                |  |                         |  |                         |  |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |  |                         |  |                         |  |

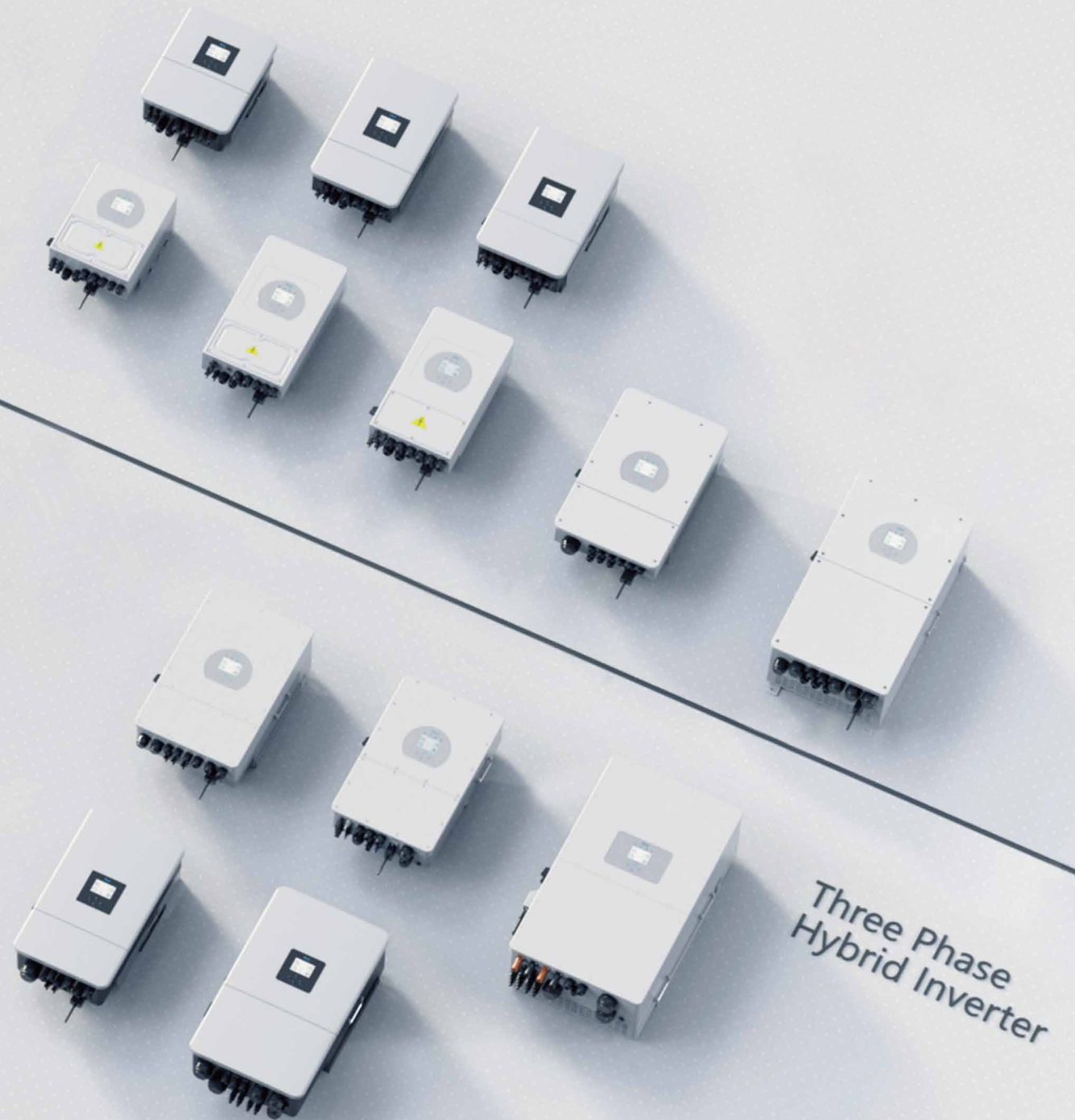
# 02

## HYBRID INVERTER

Deye hybrid inverter 3-125kW

Deye's hybrid inverters are globally recognized, commanding a leading market share in countries such as South Africa. They provide accessible, highly reliable, and sustainable energy solutions for users in areas with weak grid infrastructure or high electricity costs. These solutions address various needs, including residential to commercial energy storage applications.

Single Phase  
Hybrid Inverter



Three Phase  
Hybrid Inverter

# Off-Grid Inverter

SUN-3K-OG03LP1-24-EU-AM1  
SUN-3/3.6/4/5/6/6.6K-OG03LP1-EU-AM1/AM2



**2× PV Oversizing**  
Higher Energy Yield

**18A+18A PV Input**  
Support High-Power PV Modules

**200% Peak Output**  
Reliable High-Power Startup

**Max. 140A Charge/Discharge Current**  
Proven Reliability

**4ms Ultra-Fast Switching**  
Seamless Power for Sensitive Loads

**97.6% Conversion Efficiency**  
Low Charge/Discharge Losses

**Max. 16 Units in Parallel**  
Easily Build a Larger-Scale Off-Grid System

**Faster Payback**  
Reduce Electricity Costs

**Lightweight Design**  
Easy to Install

**Noise<46 dB**  
Ensure Quiet Operation

**IP65 Protection Rating**  
Dust and Water Resistant

**Deye Cloud**  
Remote Monitoring & Configuration

| Model                                       | SUN-3K-OG03<br>LP1-24-EU-AM1                                                                                                                                                                                        | SUN-3K-OG03<br>LP1-EU-AM1 | SUN-3.6K-OG03<br>LP1-EU-AM1 | SUN-4K-OG03<br>LP1-EU-AM1 | SUN-5K-OG03<br>LP1-EU-AM2 | SUN-6K-OG03<br>LP1-EU-AM2 | SUN-6.6K-OG03<br>LP1-EU-AM2 |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|
| Battery Input Data                          |                                                                                                                                                                                                                     |                           |                             |                           |                           |                           |                             |
| Battery Type                                | Lead-acid or Lithium-ion                                                                                                                                                                                            |                           |                             |                           |                           |                           |                             |
| Battery Voltage Range (V)                   | 20-30                                                                                                                                                                                                               | 40-60                     |                             |                           |                           |                           |                             |
| Max. Charging/Discharging Current (A)       | 135                                                                                                                                                                                                                 | 70                        | 90                          | 95                        | 120                       | 135                       | 140                         |
| Charging Strategy for Li-ion Battery        | Self-adaption to BMS                                                                                                                                                                                                |                           |                             |                           |                           |                           |                             |
| Number of Battery Input                     | 1                                                                                                                                                                                                                   |                           |                             |                           |                           |                           |                             |
| PV String Input Data                        |                                                                                                                                                                                                                     |                           |                             |                           |                           |                           |                             |
| Max. PV access power (W)                    | 6000                                                                                                                                                                                                                | 7200                      | 8000                        | 10000                     | 12000                     | 13200                     |                             |
| Max. PV Input Power (W)                     | 4800                                                                                                                                                                                                                | 5760                      | 6400                        | 8000                      | 9600                      | 10560                     |                             |
| Max. PV Input Voltage (V)                   | 500                                                                                                                                                                                                                 |                           |                             |                           |                           |                           |                             |
| Start-up Voltage (V)                        | 125                                                                                                                                                                                                                 |                           |                             |                           |                           |                           |                             |
| MPPT Voltage Range (V)                      | 150-425                                                                                                                                                                                                             |                           |                             |                           |                           |                           |                             |
| Rated PV Input Voltage (V)                  | 370                                                                                                                                                                                                                 |                           |                             |                           |                           |                           |                             |
| Max. Operating PV Input Current (A)         | 18                                                                                                                                                                                                                  |                           |                             |                           |                           | 18+18                     |                             |
| Max. Input Short-Circuit Current (A)        | 27                                                                                                                                                                                                                  |                           |                             |                           |                           | 27+27                     |                             |
| No.ofMPP Trackers/No.of Strings MPP Tracker | 1/1                                                                                                                                                                                                                 |                           |                             |                           |                           | 2/1+1                     |                             |
| AC Output Data                              |                                                                                                                                                                                                                     |                           |                             |                           |                           |                           |                             |
| Rated AC Output Power (VA/W)                | 3000                                                                                                                                                                                                                | 3600                      | 4000                        | 5000                      | 6000                      | 6600                      |                             |
| Max. AC Output Power (VA/W)                 | 3000                                                                                                                                                                                                                | 3600                      | 4000                        | 5000                      | 6000                      | 6600                      |                             |
| Max. AC Output Current (A)                  | 13.1                                                                                                                                                                                                                | 15.7                      | 17.4                        | 21.8                      | 26.1                      | 28.7                      |                             |
| Rated AC Output Current (A)                 | 13.1                                                                                                                                                                                                                | 15.7                      | 17.4                        | 21.8                      | 26.1                      | 28.7                      |                             |
| Peak Power (W)                              | 2 times of rated power, 10s                                                                                                                                                                                         |                           |                             |                           |                           |                           |                             |
| Rated output voltage                        | 230 L+N+PE                                                                                                                                                                                                          |                           |                             |                           |                           |                           |                             |
| Rated Output Frequency                      | 50Hz/60Hz                                                                                                                                                                                                           |                           |                             |                           |                           |                           |                             |
| Output Voltage Waveform                     | Pure Sine Wave                                                                                                                                                                                                      |                           |                             |                           |                           |                           |                             |
| Total Current Harmonic Distortion THDi      | <3%                                                                                                                                                                                                                 |                           |                             |                           |                           |                           |                             |
| AC Input Data (Grid and Generator)          |                                                                                                                                                                                                                     |                           |                             |                           |                           |                           |                             |
| Max. Input Power to Battery (W)             | 3000                                                                                                                                                                                                                | 3600                      | 4000                        | 5000                      | 6000                      | 6600                      |                             |
| Rated Input Voltage                         | 230                                                                                                                                                                                                                 |                           |                             |                           |                           |                           |                             |
| Rated Input Frequency                       | 50Hz/60Hz                                                                                                                                                                                                           |                           |                             |                           |                           |                           |                             |
| Grid Input Current (A)                      | 35                                                                                                                                                                                                                  |                           |                             |                           |                           |                           |                             |
| Generator Input Current (A)                 | 35                                                                                                                                                                                                                  |                           |                             |                           |                           |                           |                             |
| Efficiency                                  |                                                                                                                                                                                                                     |                           |                             |                           |                           |                           |                             |
| Max. Efficiency                             | 97.6%                                                                                                                                                                                                               |                           |                             |                           |                           |                           |                             |
| Euro Efficiency                             | 96.5%                                                                                                                                                                                                               |                           |                             |                           |                           |                           |                             |
| MPPT Efficiency                             | >99%                                                                                                                                                                                                                |                           |                             |                           |                           |                           |                             |
| Equipment Protection                        |                                                                                                                                                                                                                     |                           |                             |                           |                           |                           |                             |
| Integrated                                  | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Insulation Impedance Detection |                           |                             |                           |                           |                           |                             |
| Surge Protection Level                      | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                            |                           |                             |                           |                           |                           |                             |
| Interface                                   |                                                                                                                                                                                                                     |                           |                             |                           |                           |                           |                             |
| LCD/LED Display                             | LCD                                                                                                                                                                                                                 |                           |                             |                           |                           |                           |                             |
| Communication Interface                     | WIFI,RS485,CAN                                                                                                                                                                                                      |                           |                             |                           |                           |                           |                             |
| General Data                                |                                                                                                                                                                                                                     |                           |                             |                           |                           |                           |                             |
| Operating Temperature Range (°C)            | -40 to +60°C, >45°C Derating                                                                                                                                                                                        |                           |                             |                           |                           |                           |                             |
| Permissible Ambient Humidity                | 0-100%                                                                                                                                                                                                              |                           |                             |                           |                           |                           |                             |
| Permissible Altitude                        | 3000m                                                                                                                                                                                                               |                           |                             |                           |                           |                           |                             |
| Noise (dB)                                  | <46                                                                                                                                                                                                                 |                           |                             |                           |                           |                           |                             |
| Ingress Protection(IP) Rating               | IP 65                                                                                                                                                                                                               |                           |                             |                           |                           |                           |                             |
| Inverter Topology                           | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                            |                           |                             |                           |                           |                           |                             |
| Over Voltage Category                       | OVC II(DC), OVC III(AC)                                                                                                                                                                                             |                           |                             |                           |                           |                           |                             |
| Cabinet Size (WxHxD mm)                     | 323×424×176 (Excluding Connectors and Brackets)                                                                                                                                                                     |                           |                             |                           |                           |                           |                             |
| Weight (kg)                                 | 8.6                                                                                                                                                                                                                 |                           |                             |                           |                           |                           |                             |
| Type of Cooling                             | Intelligent Air Cooling                                                                                                                                                                                             |                           |                             |                           |                           |                           |                             |
| Safety EMC/Standard                         | IEC62109-1/-2, EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4                                                                                                                                                      |                           |                             |                           |                           |                           |                             |

# Single Phase Hybrid Inverter

SUN-3K-SG04LP1-24-EU  
SUN-3/3.6/5/6K-SG04LP1-EU



### Intuitive

- Colorful touch LCD, IP65 protection degree



### Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- Max. charging/discharging current of 140A
- Support storing energy from diesel generator

| Model                                              | SUN-3K<br>-SG04LP1-24-EU                                                                                                                                                                                                                                                                                                               | SUN-3K<br>-SG04LP1-EU | SUN-3.6K<br>-SG04LP1-EU | SUN-5K<br>-SG04LP1-EU | SUN-6K<br>-SG04LP1-EU   |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|-----------------------|-------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                       |                         |                       |                         |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                       |                         |                       |                         |
| Battery Voltage Range (V)                          | 20-30                                                                                                                                                                                                                                                                                                                                  | 40-60                 |                         |                       |                         |
| Max. Charging/Discharging Current (A)              | 140                                                                                                                                                                                                                                                                                                                                    | 70                    | 90                      | 120                   | 135                     |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                       |                         |                       |                         |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                       |                         |                       |                         |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                       |                         |                       |                         |
| Max. PV access power (W)                           | 6000                                                                                                                                                                                                                                                                                                                                   | 7200                  |                         | 10000                 | 12000                   |
| Max. PV Input Power (W)                            | 4800                                                                                                                                                                                                                                                                                                                                   | 5760                  |                         | 8000                  | 9600                    |
| Max. PV Input Voltage (V)                          | 500                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                |                       |                         |                       |                         |
| Rated PV Input Voltage (V)                         | 370                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Max. Operating PV Input Current (A)                | 18                                                                                                                                                                                                                                                                                                                                     | 18+18                 |                         |                       |                         |
| Max. Input Short-Circuit Current (A)               | 27                                                                                                                                                                                                                                                                                                                                     | 27+27                 |                         |                       |                         |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 1/1                                                                                                                                                                                                                                                                                                                                    | 2/1+1                 |                         |                       |                         |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                       |                         |                       |                         |
| Rated AC Input/Output Active Power (W)             | 3000                                                                                                                                                                                                                                                                                                                                   | 3600                  |                         | 5000                  | 6000                    |
| Max. AC Input/Output Apparent Power (VA)           | 3300                                                                                                                                                                                                                                                                                                                                   | 3960                  |                         | 5000                  | 6600                    |
| Rated AC Input/Output Current (A)                  | 13.6/13                                                                                                                                                                                                                                                                                                                                | 16.4/15.7             |                         | 22.7/21.7             | 27.3/26.1               |
| Max. AC Input/Output Current (A)                   | 15/14.3                                                                                                                                                                                                                                                                                                                                | 18/17.2*              |                         | 25/23.9               | 30/28.7                 |
| Max. Continuous AC Passthrough (grid to load) (A)  | 35                                                                                                                                                                                                                                                                                                                                     |                       |                         |                       | 40                      |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                       |                         |                       |                         |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                       |                         |                       |                         |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un L+N+PE                                                                                                                                                                                                                                                                                                           |                       |                         |                       |                         |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                       |                         |                       |                         |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                       |                         |                       |                         |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                       |                         |                       |                         |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                       |                         |                       |                         |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                       |                         |                       |                         |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                       |                         |                       |                         |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                       |                         |                       |                         |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                       |                         |                       |                         |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                       |                         |                       |                         |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                       |                         |                       |                         |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Communication Interface                            | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                       |                         |                       |                         |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                       |                         |                       |                         |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                       |                         |                       |                         |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                       |                         |                       |                         |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                       |                         |                       |                         |
| Noise (dB)                                         | <45                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                       |                         |                       |                         |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                       |                         |                       |                         |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                       |                         |                       |                         |
| Cabinet Size (WxHxD mm)                            | 330×433×228 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                       |                         |                       |                         |
| Weight (kg)                                        | 17                                                                                                                                                                                                                                                                                                                                     |                       |                         |                       |                         |
| Type of Cooling                                    | Natural Cooling                                                                                                                                                                                                                                                                                                                        |                       |                         |                       | Intelligent Air Cooling |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                       |                         |                       |                         |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                       |                         |                       |                         |

\*For the SUN-3.6K-SG04LP1-EU, the maximum output current will be capped at 15.7A to comply with the G98 standard.

# Single Phase Hybrid Inverter

SUN-3K-SG04LP1-24-EU-SM1    SUN-3K-SG04LP1-EU-SM1  
SUN-3.6/5/6K-SG04LP1-EU-SM2



### Intuitive

- Colorful touch LCD, IP65 protection degree



### Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- Max. charging/discharging current of 140A
- Support storing energy from diesel generator

| Model                                              | SUN-3K-SG04LP1<br>-24-EU-SM1                                                                                                                                                                                                                                                                                                           | SUN-3K-SG04LP1<br>-EU-SM1 | SUN-3.6K-SG04LP1<br>-EU-SM2 | SUN-5K-SG04LP1<br>-EU-SM2 | SUN-6K-SG04LP1<br>-EU-SM2 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------|---------------------------|---------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                           |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                           |                             |                           |                           |
| Battery Voltage Range (V)                          | 20-30                                                                                                                                                                                                                                                                                                                                  | 40-60                     |                             |                           |                           |
| Max. Charging/Discharging Current (A)              | 140                                                                                                                                                                                                                                                                                                                                    | 70                        | 90                          | 120                       | 135                       |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                           |                             |                           |                           |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                           |                             |                           |                           |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                           |
| Max. PV access power (W)                           | 6000                                                                                                                                                                                                                                                                                                                                   | 7200                      |                             | 10000                     | 12000                     |
| Max. PV Input Power (W)                            | 4800                                                                                                                                                                                                                                                                                                                                   | 5760                      |                             | 8000                      | 9600                      |
| Max. PV Input Voltage (V)                          | 500                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                           |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                           |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                |                           |                             |                           |                           |
| Rated PV Input Voltage (V)                         | 370                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                           |
| Max. Operating PV Input Current (A)                | 18                                                                                                                                                                                                                                                                                                                                     | 18+18                     |                             |                           |                           |
| Max. Input Short-Circuit Current (A)               | 27                                                                                                                                                                                                                                                                                                                                     | 27+27                     |                             |                           |                           |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 1/1                                                                                                                                                                                                                                                                                                                                    | 2/1+1                     |                             |                           |                           |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                           |
| Rated AC Input/Output Active Power (W)             | 3000                                                                                                                                                                                                                                                                                                                                   | 3600                      |                             | 5000                      | 6000                      |
| Max. AC Input/Output Apparent Power (VA)           | 3300                                                                                                                                                                                                                                                                                                                                   | 3960                      |                             | 5500                      | 6600                      |
| Rated AC Input/Output Current (A)                  | 13.7/13.1                                                                                                                                                                                                                                                                                                                              | 16.4/15.7                 |                             | 22.8/21.8                 | 27.3/26.1                 |
| Max. AC Input/Output Current (A)                   | 15/14.4                                                                                                                                                                                                                                                                                                                                | 18/17.3*                  |                             | 25/24                     | 30/28.7                   |
| Max. Continuous AC Passthrough (grid to load) (A)  | 35                                                                                                                                                                                                                                                                                                                                     |                           |                             |                           | 40                        |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                           |                             |                           |                           |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                           |                             |                           |                           |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                          |                           |                             |                           |                           |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                           |                             |                           |                           |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                           |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                           |                             |                           |                           |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                           |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                           |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                           |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                           |                             |                           |                           |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                           |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                           |                             |                           |                           |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                           |                             |                           |                           |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                           |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                           |
| Communication Interface                            | WIFI,RS485,CAN                                                                                                                                                                                                                                                                                                                         |                           |                             |                           |                           |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                           |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                           |                             |                           |                           |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                           |                             |                           |                           |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                           |
| Noise (dB)                                         | <45                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                           |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                           |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                           |                             |                           |                           |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                           |                             |                           |                           |
| Cabinet Size (WxHxD mm)                            | 376×470×241.5 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                      |                           |                             |                           |                           |
| Weight (kg)                                        | 17.6                                                                                                                                                                                                                                                                                                                                   |                           |                             | 19                        |                           |
| Type of Cooling                                    | Natural Cooling                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                           |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                           |                             |                           |                           |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                           |                             |                           |                           |

\*For the SUN-3.6K-SG04LP1-EU-SM2, the maximum output current will be capped at 15.7A to comply with the G98 standard.

# Single Phase Hybrid Inverter

SUN-3K-SG06LP1-24-EU-BM1 SUN-3K-SG06LP1-EU-BM1  
SUN-3.6/4/4.6/5/6K-SG06LP1-EU-BM2



### Intuitive

- Colorful touch LCD, IP65 protection degree



### Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- Max. charging/discharging current of 210A
- Support storing energy from diesel generator

| Model                                              | SUN-3K-SG06<br>LP1-24-EU-BM1                                                                                                                                                                                                                                                                                                           | SUN-3K-SG06<br>LP1-EU-BM1 | SUN-3.6K-SG06<br>LP1-EU-BM2 | SUN-4K-SG06<br>LP1-EU-BM2 | SUN-4.6K-SG06<br>LP1-EU-BM2 | SUN-5K-SG06<br>LP1-EU-BM2 | SUN-6K-SG06<br>LP1-EU-BM2 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|---------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                             |                           |                           |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                           |                             |                           |                             |                           |                           |
| Battery Voltage Range (V)                          | 20-30                                                                                                                                                                                                                                                                                                                                  | 40-60                     |                             |                           |                             |                           |                           |
| Max. Charging/Discharging Current (A)              | 140                                                                                                                                                                                                                                                                                                                                    | 70                        | 90                          | 95                        | 120                         | 120                       | 135                       |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                           |                             |                           |                             |                           |                           |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                           |                             |                           |                             |                           |                           |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                             |                           |                           |
| Max. PV access power (W)                           | 6000                                                                                                                                                                                                                                                                                                                                   | 6000                      | 7200                        | 8000                      | 9200                        | 10000                     | 12000                     |
| Max. PV Input Power (W)                            | 4800                                                                                                                                                                                                                                                                                                                                   | 4800                      | 5760                        | 6400                      | 7360                        | 8000                      | 9600                      |
| Max. PV Input Voltage (V)                          | 500                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                             |                           |                           |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                             |                           |                           |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                |                           |                             |                           |                             |                           |                           |
| Rated PV Input Voltage (V)                         | 370                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                             |                           |                           |
| Max. Operating PV Input Current (A)                | 18                                                                                                                                                                                                                                                                                                                                     | 18+18                     |                             |                           |                             |                           |                           |
| Max. Input Short-Circuit Current (A)               | 27                                                                                                                                                                                                                                                                                                                                     | 27+27                     |                             |                           |                             |                           |                           |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 1/1                                                                                                                                                                                                                                                                                                                                    | 2/1+1                     |                             |                           |                             |                           |                           |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                             |                           |                           |
| Rated AC Input/Output Active Power (W)             | 3000                                                                                                                                                                                                                                                                                                                                   | 3000                      | 3600                        | 4000                      | 4600                        | 5000                      | 6000                      |
| Max. AC Input/Output Apparent Power (VA)           | 3300                                                                                                                                                                                                                                                                                                                                   | 3300                      | 3960                        | 4400                      | 4600                        | 5500                      | 6600                      |
| Rated AC Input/Output Current (A)                  | 13.7/13.1                                                                                                                                                                                                                                                                                                                              | 13.7/13.1                 | 16.4/15.7                   | 18.2/17.4                 | 21/20                       | 22.8/21.8                 | 27.3/26.1                 |
| Max. AC Input/Output Current (A)                   | 15/14.4                                                                                                                                                                                                                                                                                                                                | 15/14.4                   | 18/17.3                     | 20/19.2                   | 21/20                       | 25.0/24.0                 | 30/28.7                   |
| Max. Continuous AC Passthrough (grid to load) (A)  | 50                                                                                                                                                                                                                                                                                                                                     |                           |                             |                           |                             |                           |                           |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                           |                             |                           |                             |                           |                           |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                           |                             |                           |                             |                           |                           |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un L+N+PE                                                                                                                                                                                                                                                                                                           |                           |                             |                           |                             |                           |                           |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                           |                             |                           |                             |                           |                           |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                             |                           |                           |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                           |                             |                           |                             |                           |                           |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                             |                           |                           |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                             |                           |                           |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                             |                           |                           |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                           |                             |                           |                             |                           |                           |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                             |                           |                           |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                           |                             |                           |                             |                           |                           |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                           |                             |                           |                             |                           |                           |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                             |                           |                           |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                             |                           |                           |
| Communication Interface                            | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                           |                             |                           |                             |                           |                           |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                             |                           |                           |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                           |                             |                           |                             |                           |                           |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                           |                             |                           |                             |                           |                           |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                             |                           |                           |
| Noise (dB)                                         | <45                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                             |                           |                           |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                             |                           |                           |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                           |                             |                           |                             |                           |                           |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                           |                             |                           |                             |                           |                           |
| Cabinet Size (WxHxD mm)                            | 310×460×218 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                           |                             |                           |                             |                           |                           |
| Weight (kg)                                        | 15.6                                                                                                                                                                                                                                                                                                                                   |                           |                             |                           |                             |                           |                           |
| Type of Cooling                                    | Natural Cooling                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                             |                           |                           |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                           |                             |                           |                             |                           |                           |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                           |                             |                           |                             |                           |                           |

# Single Phase Hybrid Inverter

SUN-3.6/5/6/7/7.6/8/10K-SG05LP1-EU-AM2-P



## Intuitive

- Colorful touch LCD, IP65 protection degree



## Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



## Intelligent

- 6 time periods for battery charging/discharging



## Reliable

- Max. charging/discharging current of 210A
- Support storing energy from diesel generator

| Model                                              | SUN-3.6K-SG05<br>LP1-EU-AM2-P                                                                                                                                                                                                                                                                                                          | SUN-5K-SG05<br>LP1-EU-AM2-P | SUN-6K-SG05<br>LP1-EU-AM2-P | SUN-7K-SG05<br>LP1-EU-AM2-P | SUN-7.6K-SG05<br>LP1-EU-AM2-P | SUN-8K-SG05<br>LP1-EU-AM2-P | SUN-10K-SG05<br>LP1-EU-AM2-P |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-----------------------------|------------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                             |                             |                             |                               |                             |                              |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                  |                             |                             |                             |                               |                             |                              |
| Max. Charging/Discharging Current (A)              | 90                                                                                                                                                                                                                                                                                                                                     | 120                         | 135                         | 175                         | 190                           | 190                         | 210                          |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                             |                             |                             |                               |                             |                              |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                             |                             |                             |                               |                             |                              |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Max. PV access power (W)                           | 7200                                                                                                                                                                                                                                                                                                                                   | 10000                       | 12000                       | 14000                       | 15200                         | 16000                       | 20000                        |
| Max. PV Input Power (W)                            | 5760                                                                                                                                                                                                                                                                                                                                   | 8000                        | 9600                        | 11200                       | 12160                         | 12800                       | 16000                        |
| Max. PV Input Voltage (V)                          | 500                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                |                             |                             |                             |                               |                             |                              |
| Rated PV Input Voltage (V)                         | 370                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| Max. Operating PV Input Current (A)                | 18+18                                                                                                                                                                                                                                                                                                                                  |                             |                             | 32+32                       |                               |                             |                              |
| Max. Input Short-Circuit Current (A)               | 27+27                                                                                                                                                                                                                                                                                                                                  |                             |                             | 48+48                       |                               |                             |                              |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                                  |                             |                             | 2/2+2                       |                               |                             |                              |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Rated AC Input/Output Active Power (W)             | 3600                                                                                                                                                                                                                                                                                                                                   | 5000                        | 6000                        | 7000                        | 7600                          | 8000                        | 10000                        |
| Max. AC Input/Output Apparent Power (VA)           | 3960                                                                                                                                                                                                                                                                                                                                   | 5500                        | 6600                        | 7700                        | 8360                          | 8800                        | 11000                        |
| Rated AC Input/Output Current (A)                  | 16.4/15.7                                                                                                                                                                                                                                                                                                                              | 22.7/21.7                   | 27.3/26.1                   | 31.9/30.5                   | 34.5/33                       | 36.4/34.8                   | 45.5/43.5                    |
| Max. AC Input/Output Current (A)                   | 18/17.2                                                                                                                                                                                                                                                                                                                                | 25/23.9                     | 30/28.7                     | 35/33.5                     | 38/36.3                       | 40/38.3                     | 50/47.9                      |
| Max. Continuous AC Passthrough (grid to load) (A)  | 35                                                                                                                                                                                                                                                                                                                                     |                             | 40                          | 50                          |                               |                             |                              |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                             |                             |                             |                               |                             |                              |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                             |                             |                             |                               |                             |                              |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un L+N+PE                                                                                                                                                                                                                                                                                                           |                             |                             |                             |                               |                             |                              |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                             |                             |                             |                               |                             |                              |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                             |                             |                             |                               |                             |                              |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                             |                             |                             |                               |                             |                              |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                             |                             |                             |                               |                             |                              |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                             |                             |                             |                               |                             |                              |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                             |                             |                             |                               |                             |                              |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                             |                             |                             |                               |                             |                              |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| Communication Interface                            | WIFI,RS485,CAN                                                                                                                                                                                                                                                                                                                         |                             |                             |                             |                               |                             |                              |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                             |                             |                             |                               |                             |                              |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                             |                             |                             |                               |                             |                              |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                             |                             |                             |                               |                             |                              |
| Noise (dB)                                         | <45                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                             |                             |                             |                               |                             |                              |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                             |                             |                             |                               |                             |                              |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                             |                             |                             |                               |                             |                              |
| Cabinet Size (WxHxD mm)                            | 330×580×232 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Weight (kg)                                        | 24.9                                                                                                                                                                                                                                                                                                                                   |                             |                             |                             |                               |                             |                              |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                             |                             |                             |                               |                             |                              |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                             |                             |                             |                               |                             |                              |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                             |                             |                             |                               |                             |                              |

# Single Phase Hybrid Inverter

SUN-3.6/5/6/7/7.6/8/10K-SG05LP1-EU-SM2-P



### Intuitive

- Colorful touch LCD, IP65 protection degree



### Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- Max. charging/discharging current of 210A
- Support storing energy from diesel generator

| Model                                              | SUN-3.6K-SG05<br>LP1-EU-SM2-P                                                                                                                                                                                                                                                                                                          | SUN-5K-SG05<br>LP1-EU-SM2-P | SUN-6K-SG05<br>LP1-EU-SM2-P | SUN-7K-SG05<br>LP1-EU-SM2-P | SUN-7.6K-SG05<br>LP1-EU-SM2-P | SUN-8K-SG05<br>LP1-EU-SM2-P | SUN-10K-SG05<br>LP1-EU-SM2-P |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-----------------------------|------------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                             |                             |                             |                               |                             |                              |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                  |                             |                             |                             |                               |                             |                              |
| Max. Charging/Discharging Current (A)              | 90                                                                                                                                                                                                                                                                                                                                     | 120                         | 135                         | 175                         | 190                           | 190                         | 210                          |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                             |                             |                             |                               |                             |                              |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                             |                             |                             |                               |                             |                              |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Max. PV access power (W)                           | 7200                                                                                                                                                                                                                                                                                                                                   | 10000                       | 12000                       | 14000                       | 15200                         | 16000                       | 20000                        |
| Max. PV Input Power (W)                            | 5760                                                                                                                                                                                                                                                                                                                                   | 8000                        | 9600                        | 11200                       | 12160                         | 12800                       | 16000                        |
| Max. PV Input Voltage (V)                          | 500                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                |                             |                             |                             |                               |                             |                              |
| Rated PV Input Voltage (V)                         | 370                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| Max. Operating PV Input Current (A)                | 18+18                                                                                                                                                                                                                                                                                                                                  |                             |                             | 32+32                       |                               |                             |                              |
| Max. Input Short-Circuit Current (A)               | 27+27                                                                                                                                                                                                                                                                                                                                  |                             |                             | 48+48                       |                               |                             |                              |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                                  |                             |                             | 2/2+2                       |                               |                             |                              |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Rated AC Input/Output Active Power (W)             | 3600                                                                                                                                                                                                                                                                                                                                   | 5000                        | 6000                        | 7000                        | 7600                          | 8000                        | 10000                        |
| Max. AC Input/Output Apparent Power (VA)           | 3960                                                                                                                                                                                                                                                                                                                                   | 5500                        | 6600                        | 7700                        | 8360                          | 8800                        | 11000                        |
| Rated AC Input/Output Current (A)                  | 16.4/15.7                                                                                                                                                                                                                                                                                                                              | 22.7/21.7                   | 27.3/26.1                   | 31.9/30.5                   | 34.6/33.1                     | 36.4/34.8                   | 45.5/43.5                    |
| Max. AC Input/Output Current (A)                   | 18/17.2                                                                                                                                                                                                                                                                                                                                | 25/24                       | 30/28.7                     | 35/33.5                     | 38/36.3                       | 40/38.3                     | 50/47.9                      |
| Max. Continuous AC Passthrough (grid to load) (A)  | 35                                                                                                                                                                                                                                                                                                                                     |                             | 40                          | 50                          |                               |                             |                              |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                             |                             |                             |                               |                             |                              |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                             |                             |                             |                               |                             |                              |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un L+N+PE                                                                                                                                                                                                                                                                                                           |                             |                             |                             |                               |                             |                              |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                             |                             |                             |                               |                             |                              |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                             |                             |                             |                               |                             |                              |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                             |                             |                             |                               |                             |                              |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                             |                             |                             |                               |                             |                              |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                             |                             |                             |                               |                             |                              |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                             |                             |                             |                               |                             |                              |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                             |                             |                             |                               |                             |                              |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| Communication Interface                            | WIFI,RS485,CAN                                                                                                                                                                                                                                                                                                                         |                             |                             |                             |                               |                             |                              |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                             |                             |                             |                               |                             |                              |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                             |                             |                             |                               |                             |                              |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                             |                             |                             |                               |                             |                              |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                             |                             |                             |                               |                             |                              |
| Noise (dB)                                         | <45                                                                                                                                                                                                                                                                                                                                    |                             |                             |                             |                               |                             |                              |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                             |                             |                             |                               |                             |                              |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                             |                             |                             |                               |                             |                              |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                             |                             |                             |                               |                             |                              |
| Cabinet Size (WxHxD mm)                            | 366×589.5×237 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                      |                             |                             |                             |                               |                             |                              |
| Weight (kg)                                        | 26.8                                                                                                                                                                                                                                                                                                                                   |                             |                             |                             |                               |                             |                              |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                             |                             |                             |                               |                             |                              |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                             |                             |                             |                               |                             |                              |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                             |                             |                             |                               |                             |                              |

# Single Phase Hybrid Inverter

SUN-7/7.6/8/10/12K-SG06LP1-EU-BM3



### Intuitive

- Colorful touch LCD, IP65 protection degree



### Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- Max. charging/discharging current of 250A
- Support storing energy from diesel generator

| Model                                              | SUN-7K-SG06<br>LP1-EU-BM3                                                                                                                                                                                                                                                                                                              | SUN-7.6K-SG06<br>LP1-EU-BM3 | SUN-8K-SG06<br>LP1-EU-BM3 | SUN-10K-SG06<br>LP1-EU-BM3 | SUN-12K-SG06<br>LP1-EU-BM3 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                             |                           |                            |                            |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                             |                           |                            |                            |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                  |                             |                           |                            |                            |
| Max. Charging/Discharging Current (A)              | 175                                                                                                                                                                                                                                                                                                                                    | 185                         | 185                       | 220                        | 250                        |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                             |                           |                            |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                             |                           |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                             |                           |                            |                            |
| Max. PV access power (W)                           | 14000                                                                                                                                                                                                                                                                                                                                  | 15200                       | 16000                     | 20000                      | 24000                      |
| Max. PV Input Power (W)                            | 11200                                                                                                                                                                                                                                                                                                                                  | 12160                       | 12800                     | 16000                      | 19200                      |
| Max. PV Input Voltage (V)                          | 500                                                                                                                                                                                                                                                                                                                                    |                             |                           |                            |                            |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                    |                             |                           |                            |                            |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                |                             |                           |                            |                            |
| Rated PV Input Voltage (V)                         | 370                                                                                                                                                                                                                                                                                                                                    |                             |                           |                            |                            |
| Max. Operating PV Input Current (A)                | 36+18+18                                                                                                                                                                                                                                                                                                                               |                             |                           |                            | 36+36+18                   |
| Max. Input Short-Circuit Current (A)               | 54+27+27                                                                                                                                                                                                                                                                                                                               |                             |                           |                            | 54+54+27                   |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/2+1+1                                                                                                                                                                                                                                                                                                                                |                             |                           |                            | 3/2+2+1                    |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                             |                           |                            |                            |
| Rated AC Input/Output Active Power (W)             | 7000                                                                                                                                                                                                                                                                                                                                   | 7600                        | 8000                      | 10000                      | 12000                      |
| Max. AC Input/Output Apparent Power (VA)           | 7700                                                                                                                                                                                                                                                                                                                                   | 8360                        | 8800                      | 11000                      | 13200                      |
| Rated AC Input/Output Current (A)                  | 31.9/30.5                                                                                                                                                                                                                                                                                                                              | 34.6/33.1                   | 36.4/34.8                 | 45.5/43.5                  | 54.6/52.2                  |
| Max. AC Input/Output Current (A)                   | 35.0/33.5                                                                                                                                                                                                                                                                                                                              | 38/36.4                     | 40/38.3                   | 50/47.9                    | 60/57.4                    |
| Max. Continuous AC Passthrough (grid to load) (A)  | 70                                                                                                                                                                                                                                                                                                                                     |                             |                           |                            |                            |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                             |                           |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                             |                           |                            |                            |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un L+N+PE                                                                                                                                                                                                                                                                                                           |                             |                           |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                             |                           |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                             |                           |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                             |                           |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                             |                           |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                             |                           |                            |                            |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                             |                           |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                             |                           |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                             |                           |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                             |                           |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                             |                           |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                             |                           |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                             |                           |                            |                            |
| Communication Interface                            | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                             |                           |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                             |                           |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                             |                           |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                             |                           |                            |                            |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                  |                             |                           |                            |                            |
| Noise (dB)                                         | <45                                                                                                                                                                                                                                                                                                                                    |                             |                           |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                             |                           |                            |                            |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                             |                           |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                             |                           |                            |                            |
| Cabinet Size (WxHxD mm)                            | 340×580×227 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                             |                           |                            |                            |
| Weight (kg)                                        | 23.7                                                                                                                                                                                                                                                                                                                                   |                             |                           | 24.5                       |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                             |                           |                            |                            |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                             |                           |                            |                            |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                             |                           |                            |                            |

# Split Phase Hybrid Inverter

SUN-5/6/8K-SG05LP2-US-SM2  
SUN-10/12K-SG05LP2-US-SM3



### Intuitive

- Colorful touch LCD, IP65 protection degree



### Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- 4ms on/off-grid switching
- Max. charging/discharging current of 220A
- Support storing energy from diesel generator

| Model                                              | SUN-5K-SG05<br>LP2-US-SM2                                                                                                                                                                                                                                                                                                              | SUN-6K-SG05<br>LP2-US-SM2 | SUN-8K-SG05<br>LP2-US-SM2 | SUN-10K-SG05<br>LP2-US-SM3 | SUN-12K-SG05<br>LP2-US-SM3 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                           |                           |                            |                            |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| Max. Charging/Discharging Current (A)              | 120                                                                                                                                                                                                                                                                                                                                    | 135                       | 190                       | 220                        | 220                        |
| Rated Battery power (W)                            | 120                                                                                                                                                                                                                                                                                                                                    | 135                       | 190                       | 220                        | 220                        |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                           |                           |                            |                            |
| Number of Battery Input                            | 2                                                                                                                                                                                                                                                                                                                                      |                           |                           |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Max. PV Input Power (W)                            | 5000                                                                                                                                                                                                                                                                                                                                   | 6000                      | 8000                      | 10000                      | 10000                      |
| Max. PV Input Voltage (V)                          | 500                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |
| Rated PV Input Voltage (V)                         | 370                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |
| Max. Operating PV Input Current (A)                | 18+18                                                                                                                                                                                                                                                                                                                                  |                           | 32+32                     | 32+32+32                   |                            |
| Max. Input Short-Circuit Current (A)               | 27+27                                                                                                                                                                                                                                                                                                                                  |                           | 60+60                     | 60+60+60                   |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                                  |                           | 2/2+2                     | 3/2+2+2                    |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Rated AC Input/Output Active Power (W)             | 5000                                                                                                                                                                                                                                                                                                                                   | 6000                      | 8000                      | 10000                      | 12000                      |
| Max. AC Input/Output Apparent Power (VA)           | 5000                                                                                                                                                                                                                                                                                                                                   | 6000                      | 8000                      | 10000                      | 12000                      |
| Rated AC Input/Output Current (A)                  | 20.9                                                                                                                                                                                                                                                                                                                                   | 25                        | 33.4                      | 41.7                       | 50                         |
| Max. AC Input/Output Current (A)                   | 20.9                                                                                                                                                                                                                                                                                                                                   | 25                        | 33.4                      | 41.7                       | 50                         |
| Max. Continuous AC Passthrough (grid to load) (A)  | 100                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                           |                           |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                           |                           |                            |                            |
| Rated input/output voltage                         | 120/240, 120/208 0.88Un<U<1.1Un 2L+N+PE                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 60/55-65                                                                                                                                                                                                                                                                                                                               |                           |                           |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                           |                           |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                           |                           |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                           |                           |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                           |                           |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |
| Communication Interface                            | RS485/RS232/CAN                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                           |                           |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                           |                           |                            |                            |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| Noise (dB)                                         | <45                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |
| Ingress Protection(IP) Rating                      | TYPE 3R                                                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                           |                           |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC IV(AC)                                                                                                                                                                                                                                                                                                                 |                           |                           |                            |                            |
| Cabinet Size (WxHxD mm)                            | 386×606.5×240 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                      |                           |                           |                            |                            |
| Weight (kg)                                        | 29.2                                                                                                                                                                                                                                                                                                                                   |                           |                           |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                           |                           |                            |                            |
| Safety EMC/Standard                                | FCC, UL 1741                                                                                                                                                                                                                                                                                                                           |                           |                           |                            |                            |

# Split Phase Hybrid Inverter

SUN-5/6/7.6/8K-SG02LP2-US-AM2  
SUN-10/12K-SG02LP2-US-AM3



### Intuitive

- Colorful touch LCD, IP65 protection degree



### Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- 4ms on/off-grid switching
- Max. charging/discharging current of 250A
- Support storing energy from diesel generator

| Model                                              | SUN-5K-SG02<br>LP2-US-AM2                                                                                                                                                                                                                                                                                                              | SUN-6K-SG02<br>LP2-US-AM2 | SUN-7.6K-SG02<br>LP2-US-AM2 | SUN-8K-SG02<br>LP2-US-AM2 | SUN-10K-SG02<br>LP2-US-AM3 | SUN-12K-SG02<br>LP2-US-AM3 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                            |                            |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                           |                             |                           |                            |                            |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                            |                            |
| Max. Charging/Discharging Current (A)              | 120                                                                                                                                                                                                                                                                                                                                    | 135                       | 190                         | 190                       | 220                        | 250                        |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                           |                             |                           |                            |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                           |                             |                           |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                            |                            |
| Max. PV Input Power (W)                            | 7500                                                                                                                                                                                                                                                                                                                                   | 9000                      | 11400                       | 12000                     | 15000                      | 18000                      |
| Max. PV Input Voltage (V)                          | 500                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                            |                            |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                            |                            |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                |                           |                             |                           |                            |                            |
| Rated PV Input Voltage (V)                         | 370                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                            |                            |
| Max. Operating PV Input Current (A)                | 20+20                                                                                                                                                                                                                                                                                                                                  |                           | 26+26                       |                           | 26+26+26                   |                            |
| Max. Input Short-Circuit Current (A)               | 44+44                                                                                                                                                                                                                                                                                                                                  |                           | 44+44                       |                           | 44+44+44                   |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/2+2                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           | 3/2+2+2                    |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                            |                            |
| Rated AC Input/Output Active Power (W)             | 5000                                                                                                                                                                                                                                                                                                                                   | 6000                      | 7600                        | 8000                      | 10000                      | 12000                      |
| Max. AC Input/Output Apparent Power (VA)           | 5000                                                                                                                                                                                                                                                                                                                                   | 6000                      | 7600                        | 8000                      | 10000                      | 12000                      |
| Rated AC Input/Output Current (A)                  | 20.9                                                                                                                                                                                                                                                                                                                                   | 25                        | 31.7                        | 33.4                      | 41.7                       | 50                         |
| Max. AC Input/Output Current (A)                   | 20.9                                                                                                                                                                                                                                                                                                                                   | 25                        | 31.7                        | 33.4                      | 41.7                       | 50                         |
| Max. Continuous AC Passthrough (grid to load) (A)  | 35                                                                                                                                                                                                                                                                                                                                     | 40                        | 50                          |                           | 60                         |                            |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                           |                             |                           |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                           |                             |                           |                            |                            |
| Rated input/output voltage                         | 120/240,120/208                                                                                                                                                                                                                                                                                                                        |                           | 0.88Un< U< 1.1Un            |                           | 2L+N+PE                    |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 60/55-65                                                                                                                                                                                                                                                                                                                               |                           |                             |                           |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                           |                             |                           |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                            |                            |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                           |                             |                           |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                           |                             |                           |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                           |                             |                           |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                            |                            |
| Communication Interface                            | WIFI,RS485                                                                                                                                                                                                                                                                                                                             |                           |                             |                           |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                           |                             |                           |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                           |                             |                           |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                           |                             |                           |                            |                            |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                            |                            |
| Noise (dB)                                         | <45                                                                                                                                                                                                                                                                                                                                    |                           |                             |                           |                            |                            |
| Ingress Protection(IP) Rating                      | TYPE3R                                                                                                                                                                                                                                                                                                                                 |                           |                             |                           |                            |                            |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                           |                             |                           |                            |                            |
| Over Voltage Category                              | OVC II(DC),OVC IV(AC)                                                                                                                                                                                                                                                                                                                  |                           |                             |                           |                            |                            |
| Cabinet Size (WxHxD mm)                            | 420×670×233 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                           |                             |                           |                            |                            |
| Weight (kg)                                        | 35.6                                                                                                                                                                                                                                                                                                                                   |                           |                             |                           |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                           |                             |                           |                            |                            |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                           |                             |                           |                            |                            |
| Safety EMC/Standard                                | FCC, UL 1741                                                                                                                                                                                                                                                                                                                           |                           |                             |                           |                            |                            |

# Single Phase Hybrid Inverter

SUN-7.6/8K-SG02LP1-EU-AM2-P  
SUN-10/12K-SG02LP1-EU-AM3-P



### Intuitive

- Colorful touch LCD, IP65 protection degree



### Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- Max. charging/discharging current of 250A
- Support storing energy from diesel generator

| Model                                              | SUN-7.6K-SG02<br>LP1-EU-AM2-P                                                                                                                                                                                                                                                                                                          | SUN-8K-SG02<br>LP1-EU-AM2-P | SUN-10K-SG02<br>LP1-EU-AM3-P | SUN-12K-SG02<br>LP1-EU-AM3-P |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                             |                              |                              |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                             |                              |                              |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                  |                             |                              |                              |
| Max. Charging/Discharging Current (A)              | 190                                                                                                                                                                                                                                                                                                                                    | 190                         | 220                          | 250                          |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                             |                              |                              |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                             |                              |                              |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                             |                              |                              |
| Max. PV access power (W)                           | 15200                                                                                                                                                                                                                                                                                                                                  | 16000                       | 20000                        | 24000                        |
| Max. PV Input Power (W)                            | 12160                                                                                                                                                                                                                                                                                                                                  | 12800                       | 16000                        | 19200                        |
| Max. PV Input Voltage (V)                          | 500                                                                                                                                                                                                                                                                                                                                    |                             |                              |                              |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                    |                             |                              |                              |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                |                             |                              |                              |
| Rated PV Input Voltage (V)                         | 370                                                                                                                                                                                                                                                                                                                                    |                             |                              |                              |
| Max. Operating PV Input Current (A)                | 32+32                                                                                                                                                                                                                                                                                                                                  |                             | 32+32+32                     |                              |
| Max. Input Short-Circuit Current (A)               | 60+60                                                                                                                                                                                                                                                                                                                                  |                             | 60+60+60                     |                              |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/2+2                                                                                                                                                                                                                                                                                                                                  |                             | 3/2+2+2                      |                              |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                             |                              |                              |
| Rated AC Input/Output Active Power (W)             | 7600                                                                                                                                                                                                                                                                                                                                   | 8000                        | 10000                        | 12000                        |
| Max. AC Input/Output Apparent Power (VA)           | 8360                                                                                                                                                                                                                                                                                                                                   | 8800                        | 11000                        | 13200                        |
| Rated AC Input/Output Current (A)                  | 34.6/33.1                                                                                                                                                                                                                                                                                                                              | 36.4/34.8                   | 45.5/43.5                    | 54.6/52.2                    |
| Max. AC Input/Output Current (A)                   | 38/36.4                                                                                                                                                                                                                                                                                                                                | 40/38.3                     | 50/47.9                      | 60/57.4                      |
| Max. Continuous AC Passthrough (grid to load) (A)  | 50                                                                                                                                                                                                                                                                                                                                     |                             | 60                           |                              |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                             |                              |                              |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                             |                              |                              |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un L+N+PE                                                                                                                                                                                                                                                                                                           |                             |                              |                              |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                             |                              |                              |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                             |                              |                              |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                             |                              |                              |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                             |                              |                              |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                             |                              |                              |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                             |                              |                              |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                             |                              |                              |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                             |                              |                              |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                             |                              |                              |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                             |                              |                              |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                             |                              |                              |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                             |                              |                              |
| Communication Interface                            | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                             |                              |                              |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                             |                              |                              |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                             |                              |                              |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                             |                              |                              |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                             |                              |                              |
| Noise (dB)                                         | <45                                                                                                                                                                                                                                                                                                                                    |                             |                              |                              |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                             |                              |                              |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                             |                              |                              |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                             |                              |                              |
| Cabinet Size (WxHxD mm)                            | 420×670×233 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                             |                              |                              |
| Weight (kg)                                        | 35.6                                                                                                                                                                                                                                                                                                                                   |                             |                              |                              |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                             |                              |                              |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                             |                              |                              |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                             |                              |                              |

# Single Phase Hybrid Inverter

SUN-12/14/16K-SG01LP1-EU



### Intuitive

- Colorful touch LCD, IP65 protection degree



### Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- Max. charging/discharging current of 290A
- Support storing energy from diesel generator

| Model                                              | SUN-12K-SG01LP1-EU                                                                                                                                                                                                                                                                                                                     |           | SUN-14K-SG01LP1-EU |           | SUN-16K-SG01LP1-EU |  |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|-----------|--------------------|--|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |           |                    |           |                    |  |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |           |                    |           |                    |  |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                  |           |                    |           |                    |  |
| Max. Charging/Discharging Current (A)              | 220                                                                                                                                                                                                                                                                                                                                    | 250       |                    | 290       |                    |  |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |           |                    |           |                    |  |
| Number of Battery Input                            | 2                                                                                                                                                                                                                                                                                                                                      |           |                    |           |                    |  |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |           |                    |           |                    |  |
| Max. PV access power (W)                           | 24000                                                                                                                                                                                                                                                                                                                                  | 28000     |                    | 32000     |                    |  |
| Max. PV Input Power (W)                            | 19200                                                                                                                                                                                                                                                                                                                                  | 22400     |                    | 25600     |                    |  |
| Max. PV Input Voltage (V)                          | 500                                                                                                                                                                                                                                                                                                                                    |           |                    |           |                    |  |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                    |           |                    |           |                    |  |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                |           |                    |           |                    |  |
| Rated PV Input Voltage (V)                         | 370                                                                                                                                                                                                                                                                                                                                    |           |                    |           |                    |  |
| Max. Operating PV Input Current (A)                | 26+26+26                                                                                                                                                                                                                                                                                                                               |           |                    |           |                    |  |
| Max. Input Short-Circuit Current (A)               | 44+44+44                                                                                                                                                                                                                                                                                                                               |           |                    |           |                    |  |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/2+2+2                                                                                                                                                                                                                                                                                                                                |           |                    |           |                    |  |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |           |                    |           |                    |  |
| Rated AC Input/Output Active Power (W)             | 12000                                                                                                                                                                                                                                                                                                                                  | 14000     |                    | 16000     |                    |  |
| Max. AC Input/Output Apparent Power (VA)           | 13200                                                                                                                                                                                                                                                                                                                                  | 15400     |                    | 17600     |                    |  |
| Rated AC Input/Output Current (A)                  | 54.5/52.2                                                                                                                                                                                                                                                                                                                              | 63.6/60.9 |                    | 72.7/69.6 |                    |  |
| Max. AC Input/Output Current (A)                   | 60/57.4                                                                                                                                                                                                                                                                                                                                | 70/67     |                    | 80/76.5   |                    |  |
| Max. Continuous AC Passthrough (grid to load) (A)  | 100                                                                                                                                                                                                                                                                                                                                    |           |                    |           |                    |  |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |           |                    |           |                    |  |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |           |                    |           |                    |  |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un L+N+PE                                                                                                                                                                                                                                                                                                           |           |                    |           |                    |  |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |           |                    |           |                    |  |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |           |                    |           |                    |  |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |           |                    |           |                    |  |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |           |                    |           |                    |  |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |           |                    |           |                    |  |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |           |                    |           |                    |  |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |           |                    |           |                    |  |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |           |                    |           |                    |  |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |           |                    |           |                    |  |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |           |                    |           |                    |  |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |           |                    |           |                    |  |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |           |                    |           |                    |  |
| Communication Interface                            | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |           |                    |           |                    |  |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |           |                    |           |                    |  |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |           |                    |           |                    |  |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |           |                    |           |                    |  |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |           |                    |           |                    |  |
| Noise (dB)                                         | <50                                                                                                                                                                                                                                                                                                                                    |           |                    |           |                    |  |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |           |                    |           |                    |  |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |           |                    |           |                    |  |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |           |                    |           |                    |  |
| Cabinet Size (WxHxD mm)                            | 464×763×282 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |           |                    |           |                    |  |
| Weight (kg)                                        | 52                                                                                                                                                                                                                                                                                                                                     |           |                    |           |                    |  |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |           |                    |           |                    |  |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |           |                    |           |                    |  |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |           |                    |           |                    |  |

# Single Phase Hybrid Inverter

SUN-12/14/16/18K-SG01LP1-EU-AM3-P



## Intuitive

- Colorful touch LCD, IP65 protection degree



## Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



## Intelligent

- 6 time periods for battery charging/discharging



## Reliable

- Max. charging/discharging current of 380A
- Support storing energy from diesel generator

| Model                                                          | SUN-12K-SG01LP1<br>-EU-AM3-P                                                                                                                                                                                                                                                                                                           | SUN-14K-SG01LP1<br>-EU-AM3-P | SUN-16K-SG01LP1<br>-EU-AM3-P | SUN-18K-SG01LP1<br>-EU-AM3-P |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|
| Battery Input Data                                             |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |
| Battery Type                                                   | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                              |                              |                              |
| Battery Voltage Range (V)                                      | 40-60                                                                                                                                                                                                                                                                                                                                  |                              |                              |                              |
| Max. Charging/Discharging Current (A)                          | 220                                                                                                                                                                                                                                                                                                                                    | 250                          | 290                          | 380                          |
| Charging Strategy for Li-ion Battery                           | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                              |                              |                              |
| Number of Battery Input                                        | 2                                                                                                                                                                                                                                                                                                                                      |                              |                              |                              |
| PV String Input Data                                           |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |
| Max. PV access power (W)                                       | 24000                                                                                                                                                                                                                                                                                                                                  | 28000                        | 32000                        | 36000                        |
| Max. PV Input Power (W)                                        | 19200                                                                                                                                                                                                                                                                                                                                  | 22400                        | 25600                        | 28800                        |
| Max. PV Input Voltage (V)                                      | 500                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |
| Start-up Voltage (V)                                           | 125                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |
| MPPT Voltage Range (V)                                         | 150-425                                                                                                                                                                                                                                                                                                                                |                              |                              |                              |
| Rated PV Input Voltage (V)                                     | 370                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |
| Max. Operating PV Input Current (A)                            | 36+36+36                                                                                                                                                                                                                                                                                                                               |                              |                              |                              |
| Max. Input Short-Circuit Current (A)                           | 54+54+54                                                                                                                                                                                                                                                                                                                               |                              |                              |                              |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker             | 3/2+2+2                                                                                                                                                                                                                                                                                                                                |                              |                              |                              |
| AC Input/Output Data                                           |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |
| Rated AC Input/Output Active Power (W)                         | 12000                                                                                                                                                                                                                                                                                                                                  | 14000                        | 16000                        | 18000                        |
| Max. AC Input/Output Apparent Power (VA)                       | 13200                                                                                                                                                                                                                                                                                                                                  | 15400                        | 17600                        | 19800                        |
| Rated AC Input/Output Current (A)                              | 54.6/52.2                                                                                                                                                                                                                                                                                                                              | 63.7/60.9                    | 72.8/69.6                    | 81.9/78.3                    |
| Max. AC Input/Output Current (A)                               | 60/57.4                                                                                                                                                                                                                                                                                                                                | 70/67                        | 80/76.6                      | 90/86.1                      |
| Max. Continuous AC Passthrough (grid to load) (A)              | 100                                                                                                                                                                                                                                                                                                                                    |                              |                              | 200                          |
| Peak Power (off-grid) (W)                                      | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                              |                              |                              |
| Power Factor Adjustment Range                                  | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                              |                              |                              |
| Rated input/output voltage                                     | 220/230V 0.85Un-1.1Un L+N+PE                                                                                                                                                                                                                                                                                                           |                              |                              |                              |
| Rated Input/Output Grid Frequency/Range(Hz)                    | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                              |                              |                              |
| Total Current Harmonic Distortion THDi                         | <3%                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |
| DC Injection Current                                           | <0.5In                                                                                                                                                                                                                                                                                                                                 |                              |                              |                              |
| Efficiency                                                     |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |
| Max. Efficiency                                                | 97.6%                                                                                                                                                                                                                                                                                                                                  |                              |                              |                              |
| Euro Efficiency                                                | 96.5%                                                                                                                                                                                                                                                                                                                                  |                              |                              |                              |
| MPPT Efficiency                                                | >99%                                                                                                                                                                                                                                                                                                                                   |                              |                              |                              |
| Equipment Protection                                           |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |
| Integrated                                                     | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                              |                              |                              |
| Surge Protection Level                                         | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                              |                              |                              |
| Interface                                                      |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |
| LCD/LED Display                                                | LCD                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |
| Communication Interface                                        | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                              |                              |                              |
| General Data                                                   |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |
| Operating Temperature Range (°C)                               | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                              |                              |                              |
| Permissible Ambient Humidity                                   | 0-100%                                                                                                                                                                                                                                                                                                                                 |                              |                              |                              |
| Permissible Altitude                                           | 3000m                                                                                                                                                                                                                                                                                                                                  |                              |                              |                              |
| Noise (dB)                                                     | <55                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |
| Ingress Protection(IP) Rating                                  | IP 65                                                                                                                                                                                                                                                                                                                                  |                              |                              |                              |
| Inverter Topology                                              | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                              |                              |                              |
| Over Voltage Category                                          | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                              |                              |                              |
| Cabinet Size (WxHxD mm)<br>(Excluding Connectors and Brackets) | 464×763×282                                                                                                                                                                                                                                                                                                                            |                              |                              | 464×863×282                  |
| Weight (kg)                                                    | 54.1                                                                                                                                                                                                                                                                                                                                   |                              |                              | 59.8                         |
| Type of Cooling                                                | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                              |                              |                              |
| Warranty                                                       | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                              |                              |                              |
| Safety EMC/Standard                                            | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                              |                              |                              |

# Three Phase Hybrid Inverter

SUN-5/6/8/10/12K-SG04LP3-EU



## Safe

- 48V low voltage battery, transformer isolation design



## Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



## Intelligent

- 6 time periods for battery charging/discharging



## Reliable

- Max. charging/discharging current of 240A
- Support storing energy from diesel generator
- 100% unbalanced output, max. output up to 50% rated power for each phase

| Model                                              | SUN-5K<br>-SG04LP3-EU                                                                                                                                                                                                                                                                                                                  | SUN-6K<br>-SG04LP3-EU | SUN-8K<br>-SG04LP3-EU | SUN-10K<br>-SG04LP3-EU | SUN-12K<br>-SG04LP3-EU |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|------------------------|------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                       |                       |                        |                        |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                  |                       |                       |                        |                        |
| Max. Charging/Discharging Current (A)              | 120                                                                                                                                                                                                                                                                                                                                    | 150                   | 190                   | 210                    | 240                    |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                       |                       |                        |                        |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                       |                       |                        |                        |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| Max. PV access power (W)                           | 10000                                                                                                                                                                                                                                                                                                                                  | 12000                 | 16000                 | 20000                  | 24000                  |
| Max. PV Input Power (W)                            | 7500                                                                                                                                                                                                                                                                                                                                   | 9000                  | 12000                 | 15000                  | 18000                  |
| Max. PV Input Voltage (V)                          | 800                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Start-up Voltage (V)                               | 160                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| MPPT Voltage Range (V)                             | 200-650                                                                                                                                                                                                                                                                                                                                |                       |                       |                        |                        |
| Rated PV Input Voltage (V)                         | 550                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Max. Operating PV Input Current (A)                | 13+13                                                                                                                                                                                                                                                                                                                                  |                       |                       | 26+13                  |                        |
| Max. Input Short-Circuit Current (A)               | 17+17                                                                                                                                                                                                                                                                                                                                  |                       |                       | 34+17                  |                        |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                                  |                       |                       | 2/2+1                  |                        |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| Rated AC Input/Output Active Power (W)             | 5000                                                                                                                                                                                                                                                                                                                                   | 6000                  | 8000                  | 10000                  | 12000                  |
| Max. AC Input/Output Apparent Power (VA)           | 5500                                                                                                                                                                                                                                                                                                                                   | 6600                  | 8800                  | 11000                  | 13200                  |
| Rated AC Input/Output Current (A)                  | 7.6/7.2                                                                                                                                                                                                                                                                                                                                | 9.1/8.7               | 12.1/11.6             | 15.2/14.5              | 18.2/17.4              |
| Max. AC Input/Output Current (A)                   | 8.4/8                                                                                                                                                                                                                                                                                                                                  | 10/9.6                | 13.4/12.8             | 16.7/15.9              | 20/19.1                |
| Max. Continuous AC Passthrough (grid to load) (A)  | 45                                                                                                                                                                                                                                                                                                                                     |                       |                       |                        |                        |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                       |                       |                        |                        |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                       |                       |                        |                        |
| Rated input/output voltage                         | 220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                |                       |                       |                        |                        |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                       |                       |                        |                        |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                       |                       |                        |                        |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                       |                       |                        |                        |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                  |                       |                       |                        |                        |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                       |                       |                        |                        |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                       |                       |                        |                        |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                       |                       |                        |                        |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Communication Interface                            | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                       |                       |                        |                        |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                       |                       |                        |                        |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                       |                       |                        |                        |
| Noise (dB)                                         | ≤55                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                       |                       |                        |                        |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                       |                       |                        |                        |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                       |                       |                        |                        |
| Cabinet Size (WxHxD mm)                            | 422×658×254 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| Weight (kg)                                        | 38                                                                                                                                                                                                                                                                                                                                     |                       |                       |                        |                        |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                       |                       |                        |                        |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                       |                       |                        |                        |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |

# Three Phase Hybrid Inverter

SUN-3/4/5/6/8/10/12K-SG05LP3-EU-SM2



### Safe

- 48V low voltage battery, transformer isolation design



### Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- Max. charging/discharging current of 240A
- Support storing energy from diesel generator
- 100% unbalanced output, max. output up to 50% rated power for each phase

| Model                                              | SUN-3K-SG05<br>LP3-EU-SM2                                                                                                                                                                                                                                                                                                              | SUN-4K-SG05<br>LP3-EU-SM2 | SUN-5K-SG05<br>LP3-EU-SM2 | SUN-6K-SG05<br>LP3-EU-SM2 | SUN-8K-SG05<br>LP3-EU-SM2 | SUN-10K-SG05<br>LP3-EU-SM2 | SUN-12K-SG05<br>LP3-EU-SM2 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |                            |                            |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                           |                           |                           |                           |                            |                            |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |                            |                            |
| Max. Charging/Discharging Current (A)              | 70                                                                                                                                                                                                                                                                                                                                     | 95                        | 120                       | 135                       | 190                       | 210                        | 240                        |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                           |                           |                           |                           |                            |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                           |                           |                           |                           |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |                            |                            |
| Max. PV access power (W)                           | 6000                                                                                                                                                                                                                                                                                                                                   | 8000                      | 10000                     | 12000                     | 16000                     | 20000                      | 24000                      |
| Max. PV Input Power (W)                            | 4800                                                                                                                                                                                                                                                                                                                                   | 6400                      | 8000                      | 9600                      | 12800                     | 16000                      | 19200                      |
| Max. PV Input Voltage (V)                          | 800                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |                            |                            |
| Start-up Voltage (V)                               | 160                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |                            |                            |
| MPPT Voltage Range (V)                             | 200-650                                                                                                                                                                                                                                                                                                                                |                           |                           |                           |                           |                            |                            |
| Rated PV Input Voltage (V)                         | 550                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |                            |                            |
| Max. Operating PV Input Current (A)                | 20+20                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           | 26+26                      |                            |
| Max. Input Short-Circuit Current (A)               | 30+30                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           | 39+39                      |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           | 2/2+2                      |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |                            |                            |
| Rated AC Input/Output Active Power (W)             | 3000                                                                                                                                                                                                                                                                                                                                   | 4000                      | 5000                      | 6000                      | 8000                      | 10000                      | 12000                      |
| Max. AC Input/Output Apparent Power (VA)           | 3300                                                                                                                                                                                                                                                                                                                                   | 4400                      | 5500                      | 6600                      | 8800                      | 11000                      | 13200                      |
| Rated AC Input/Output Current (A)                  | 4.6/4.4                                                                                                                                                                                                                                                                                                                                | 6.1/5.8                   | 7.6/7.3                   | 9.1/8.7                   | 12.2/11.6                 | 15.2/14.5                  | 18.2/17.4                  |
| Max. AC Input/Output Current (A)                   | 5/4.8                                                                                                                                                                                                                                                                                                                                  | 6.7/6.4                   | 8.4/8                     | 10/9.6                    | 13.4/12.8                 | 16.7/16                    | 20/19.2                    |
| Max. Continuous AC Passthrough (grid to load) (A)  | 45                                                                                                                                                                                                                                                                                                                                     |                           |                           |                           |                           |                            |                            |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                           |                           |                           |                           |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                           |                           |                           |                           |                            |                            |
| Rated input/output voltage                         | 220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                |                           |                           |                           |                           |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                           |                           |                           |                           |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                           |                           |                           |                           |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |                            |                            |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                           |                           |                           |                           |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                           |                           |                           |                           |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                           |                           |                           |                           |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |                            |                            |
| Communication Interface                            | WIFI,RS485,CAN                                                                                                                                                                                                                                                                                                                         |                           |                           |                           |                           |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                           |                           |                           |                           |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                           |                           |                           |                           |                            |                            |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |                            |                            |
| Noise (dB)                                         | ≤55                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |                            |                            |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                           |                           |                           |                           |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                           |                           |                           |                           |                            |                            |
| Cabinet Size (WxHxD mm)                            | 386×660×250 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |                            |                            |
| Weight (kg)                                        | 35.2                                                                                                                                                                                                                                                                                                                                   |                           |                           |                           |                           |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                           |                           |                           |                           |                            |                            |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                           |                           |                           |                           |                            |                            |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                           |                           |                           |                           |                            |                            |

# Three Phase Hybrid Inverter

SUN-3/4/5/6/8K-SG06LP3-EU-BM2



### Safe

- 48V low voltage battery, transformer isolation design



### Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- Max. charging/discharging current of 190A
- Support storing energy from diesel generator
- 100% unbalanced output, max. output up to 50% rated power for each phase

| Model                                              | SUN-3K-SG06<br>LP3-EU-BM2                                                                                                                                                                                                                                                                                                              | SUN-4K-SG06<br>LP3-EU-BM2 | SUN-5K-SG06<br>LP3-EU-BM2 | SUN-6K-SG06<br>LP3-EU-BM2 | SUN-8K-SG06<br>LP3-EU-BM2 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                           |                           |                           |                           |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |
| Max. Charging/Discharging Current (A)              | 70                                                                                                                                                                                                                                                                                                                                     | 95                        | 120                       | 135                       | 190                       |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                           |                           |                           |                           |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                           |                           |                           |                           |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |
| Max. PV access power (W)                           | 6000                                                                                                                                                                                                                                                                                                                                   | 8000                      | 10000                     | 12000                     | 16000                     |
| Max. PV Input Power (W)                            | 4800                                                                                                                                                                                                                                                                                                                                   | 6400                      | 8000                      | 9600                      | 12800                     |
| Max. PV Input Voltage (V)                          | 800                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |
| Start-up Voltage (V)                               | 160                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |
| MPPT Voltage Range (V)                             | 200-650                                                                                                                                                                                                                                                                                                                                |                           |                           |                           |                           |
| Rated PV Input Voltage (V)                         | 550                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |
| Max. Operating PV Input Current (A)                | 20+20                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |
| Max. Input Short-Circuit Current (A)               | 30+30                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |
| Rated AC Input/Output Active Power (W)             | 3000                                                                                                                                                                                                                                                                                                                                   | 4000                      | 5000                      | 6000                      | 8000                      |
| Max. AC Input/Output Apparent Power (VA)           | 3300                                                                                                                                                                                                                                                                                                                                   | 4400                      | 5500                      | 6600                      | 8800                      |
| Rated AC Input/Output Current (A)                  | 4.6/4.4                                                                                                                                                                                                                                                                                                                                | 6.1/5.8                   | 7.6/7.3                   | 9.1/8.7                   | 12.2/11.6                 |
| Max. AC Input/Output Current (A)                   | 5/4.8                                                                                                                                                                                                                                                                                                                                  | 6.7/6.4                   | 8.4/8                     | 10/9.6                    | 12.4/12.8                 |
| Max. Continuous AC Passthrough (grid to load) (A)  | 45                                                                                                                                                                                                                                                                                                                                     |                           |                           |                           |                           |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                           |                           |                           |                           |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                           |                           |                           |                           |
| Rated input/output voltage                         | 220/380V,230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                 |                           |                           |                           |                           |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                           |                           |                           |                           |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                           |                           |                           |                           |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                           |                           |                           |                           |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                           |                           |                           |                           |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                           |                           |                           |                           |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |
| Communication Interface                            | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                           |                           |                           |                           |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                           |                           |                           |                           |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                           |                           |                           |                           |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |
| Noise (dB)                                         | <45                                                                                                                                                                                                                                                                                                                                    |                           |                           |                           |                           |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                           |                           |                           |                           |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                           |                           |                           |                           |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                           |                           |                           |                           |
| Cabinet Size (WxHxD mm)                            | 334×560×216 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                           |                           |                           |                           |
| Weight (kg)                                        | 20.8                                                                                                                                                                                                                                                                                                                                   |                           |                           |                           | 21.9                      |
| Type of Cooling                                    | Natural Cooling                                                                                                                                                                                                                                                                                                                        |                           |                           |                           | Intelligent Air Cooling   |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                           |                           |                           |                           |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                           |                           |                           |                           |

# Three Phase Hybrid Inverter

SUN-14/15/16/18/20K-SG05LP3-EU-SM2



### Safe

- 48V low voltage battery, transformer isolation design



### Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- Max. charging/discharging current of 350A
- Support storing energy from diesel generator
- 100% unbalanced output, max. output up to 50% rated power for each phase

| Model                                              | SUN-14K-SG05<br>LP3-EU-SM2                                                                                                                                                                                                                                                                                                             | SUN-15K-SG05<br>LP3-EU-SM2 | SUN-16K-SG05<br>LP3-EU-SM2 | SUN-18K-SG05<br>LP3-EU-SM2 | SUN-20K-SG05<br>LP3-EU-SM2 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Max. Charging/Discharging Current (A)              | 260                                                                                                                                                                                                                                                                                                                                    | 280                        | 300                        | 330                        | 350                        |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Number of Battery Input                            | 2                                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Max. PV access power (W)                           | 28000                                                                                                                                                                                                                                                                                                                                  | 30000                      | 32000                      | 36000                      | 40000                      |
| Max. PV Input Power (W)                            | 22400                                                                                                                                                                                                                                                                                                                                  | 24000                      | 25600                      | 28800                      | 32000                      |
| Max. PV Input Voltage (V)                          | 800                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Start-up Voltage (V)                               | 160                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| MPPT Voltage Range (V)                             | 160-650                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 550                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Max. Operating PV Input Current (A)                | 36+36                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Max. Input Short-Circuit Current (A)               | 54+54                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/2+2                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 14000                                                                                                                                                                                                                                                                                                                                  | 15000                      | 16000                      | 18000                      | 20000                      |
| Max. AC Input/Output Apparent Power (VA)           | 15400                                                                                                                                                                                                                                                                                                                                  | 16500                      | 17600                      | 19800                      | 22000                      |
| Rated AC Input/Output Current (A)                  | 21.3/20.3                                                                                                                                                                                                                                                                                                                              | 22.8/21.8                  | 24.3/23.2                  | 27.3/26.1                  | 30.4/29                    |
| Max. AC Input/Output Current (A)                   | 23.4/22.4                                                                                                                                                                                                                                                                                                                              | 25/24                      | 26.7/25.6                  | 30/28.7                    | 33.4/31.9                  |
| Max. Continuous AC Passthrough (grid to load) (A)  | 70                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                            |                            |                            |                            |
| Rated input/output voltage                         | 220/380V,230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                            |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Communication Interface                            | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Noise (dB)                                         | <60                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Inverter Topology                                  | Non-Isolated (solar), Isolated (battery)                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 456×750×268.5 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                      |                            |                            |                            |                            |
| Weight (kg)                                        | 51.9                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                            |                            |                            |                            |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |

# Three Phase Hybrid Inverter

SUN-5/6/8/10/12K-SG01HP3-EU-DM2



## Efficient

- High voltage battery, higher efficiency



## Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



## Intelligent

- 6 time periods for battery charging/discharging



## Reliable

- Max. charging/discharging current of 37A
- Support storing energy from diesel generator
  - 100% unbalanced output

| Model                                              | SUN-5K-SG01HP3<br>-EU-DM2                                                                                                                                                                                                                                                                                                              | SUN-6K-SG01HP3<br>-EU-DM2 | SUN-8K-SG01HP3<br>-EU-DM2 | SUN-10K-SG01HP3<br>-EU-DM2 | SUN-12K-SG01HP3<br>-EU-DM2 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                            |                           |                           |                            |                            |
| Battery Voltage Range (V)                          | 160-700                                                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |
| Max. Charging/Discharging Current (A)              | 37                                                                                                                                                                                                                                                                                                                                     |                           |                           |                            |                            |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                           |                           |                            |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                           |                           |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Max. PV access power (W)                           | 10000                                                                                                                                                                                                                                                                                                                                  | 12000                     | 16000                     | 20000                      | 24000                      |
| Max. PV Input Power (W)                            | 8000                                                                                                                                                                                                                                                                                                                                   | 9600                      | 12800                     | 16000                      | 19200                      |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                   |                           |                           |                            |                            |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |
| Rated PV Input Voltage (V)                         | 600                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |
| Max. Operating PV Input Current (A)                | 18+18                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| Max. Input Short-Circuit Current (A)               | 27+27                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Rated AC Input/Output Active Power (W)             | 5000                                                                                                                                                                                                                                                                                                                                   | 6000                      | 8000                      | 10000                      | 12000                      |
| Max. AC Input/Output Apparent Power (VA)           | 5500                                                                                                                                                                                                                                                                                                                                   | 6600                      | 8800                      | 11000                      | 13200                      |
| Rated AC Input/Output Current (A)                  | 7.6/7.3                                                                                                                                                                                                                                                                                                                                | 9.1/8.7                   | 12.2/11.6                 | 15.2/14.5                  | 18.2/17.4                  |
| Max. AC Input/Output Current (A)                   | 8.4/8.0                                                                                                                                                                                                                                                                                                                                | 10/9.6                    | 13.4/12.8                 | 16.7/16                    | 20/19.2                    |
| Max. Continuous AC Passthrough (grid to load) (A)  | 35                                                                                                                                                                                                                                                                                                                                     |                           |                           |                            |                            |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                          |                           |                           |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                           |                           |                            |                            |
| Rated input/output voltage                         | 220/380V,230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                 |                           |                           |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                           |                           |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                           |                           |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                           |                           |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                           |                           |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                           |                           |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| LCD/LED Display                                    | LCD+LED                                                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |
| Communication Interface                            | RS485, RS232, CAN                                                                                                                                                                                                                                                                                                                      |                           |                           |                            |                            |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN (optional)                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                           |                           |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                           |                           |                            |                            |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| Noise (dB)                                         | ≤45                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                           |                           |                           |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |
| Cabinet Size (WxHxD mm)                            | 376×470×244.5 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                      |                           |                           |                            |                            |
| Weight (kg)                                        | 24                                                                                                                                                                                                                                                                                                                                     |                           |                           |                            |                            |
| Type of Cooling                                    | Natural Cooling                                                                                                                                                                                                                                                                                                                        |                           |                           |                            | Intelligent Air Cooling    |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                           |                           |                            |                            |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                           |                           |                            |                            |

# Three Phase Hybrid Inverter

SUN-5/6/8/10/12/15/20/25K-SG01HP3-EU-AM2



### Efficient

- High voltage battery, higher efficiency



### Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



### Intelligent

- 6 time periods for battery charging/discharging



### Reliable

- Max. charging/discharging current of 50A
- Support storing energy from diesel generator
  - 100% unbalanced output

| Model                                              | SUN-5K-SG01<br>HP3-EU-AM2                                                                                                                                                                                                                                                                                                              | SUN-6K-SG01<br>HP3-EU-AM2 | SUN-8K-SG01<br>HP3-EU-AM2 | SUN-10K-SG01<br>HP3-EU-AM2 | SUN-12K-SG01<br>HP3-EU-AM2 | SUN-15K-SG01<br>HP3-EU-AM2 | SUN-20K-SG01<br>HP3-EU-AM2 | SUN-25K-SG01<br>HP3-EU-AM2 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |                            |                            |                            |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                            |                           |                           |                            |                            |                            |                            |                            |
| Battery Voltage Range (V)                          | 160-700                                                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |                            |                            |                            |
| Max. Charging/Discharging Current (A)              | 30                                                                                                                                                                                                                                                                                                                                     | 37                        |                           |                            |                            |                            |                            | 50                         |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                           |                           |                            |                            |                            |                            |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                           |                           |                            |                            |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |                            |                            |                            |
| Max. PV access power (W)                           | 10000                                                                                                                                                                                                                                                                                                                                  | 12000                     | 16000                     | 20000                      | 24000                      | 30000                      | 40000                      | 50000                      |
| Max. PV Input Power (W)                            | 8000                                                                                                                                                                                                                                                                                                                                   | 9600                      | 12800                     | 16000                      | 19200                      | 24000                      | 32000                      | 40000                      |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                   |                           |                           |                            |                            |                            |                            |                            |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |                            |                            |                            |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 600                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |                            |                            | 700                        |
| Max. Operating PV Input Current (A)                | 20+20                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            | 26+20                      |                            | 26+26                      |                            |
| Max. Input Short-Circuit Current (A)               | 30+30                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            | 39+30                      |                            | 39+39                      |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            | 2/2+1                      |                            | 2/2+2                      |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 5000                                                                                                                                                                                                                                                                                                                                   | 6000                      | 8000                      | 10000                      | 12000                      | 15000                      | 20000                      | 25000                      |
| Max. AC Input/Output Apparent Power (VA)           | 5500                                                                                                                                                                                                                                                                                                                                   | 6600                      | 8800                      | 11000                      | 13200                      | 16500                      | 22000                      | 27500                      |
| Rated AC Input/Output Current (A)                  | 7.6/7.3                                                                                                                                                                                                                                                                                                                                | 9.1/8.7                   | 12.2/11.6                 | 15.2/14.5                  | 18.2/17.4                  | 22.8/21.8                  | 30.4/29.0                  | 37.9/36.3                  |
| Max. AC Input/Output Current (A)                   | 8.4/8.0                                                                                                                                                                                                                                                                                                                                | 10/9.6                    | 13.4/12.8                 | 16.7/16                    | 20/19.2                    | 25/24                      | 33.4/31.9                  | 41.7/39.9                  |
| Max. Continuous AC Passthrough (grid to load) (A)  | 40                                                                                                                                                                                                                                                                                                                                     |                           |                           |                            | 80                         |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                          |                           |                           |                            |                            |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                           |                           |                            |                            |                            |                            |                            |
| Rated input/output voltage                         | 220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |                            |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                           |                           |                            |                            |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                           |                           |                            |                            |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |                            |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |                            |                            |                            |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                           |                           |                            |                            |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |                            |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                           |                           |                            |                            |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                           |                           |                            |                            |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |                            |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |                            |                            |                            |
| Communication Interface                            | WiFi, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                           |                           |                            |                            |                            |                            |                            |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G                                                                                                                                                                                                                                                                                                                 |                           |                           |                            |                            |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |                            |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                           |                           |                            |                            |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                           |                           |                            |                            |                            |                            |                            |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |                            |                            |                            |
| Noise (dB)                                         | ≤55                                                                                                                                                                                                                                                                                                                                    |                           |                           |                            |                            |                            |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                           |                           |                            |                            |                            |                            |                            |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                           |                           |                           |                            |                            |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                           |                           |                            |                            |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 408×638×237 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                           |                           |                            |                            |                            |                            |                            |
| Weight (kg)                                        | 30.5                                                                                                                                                                                                                                                                                                                                   |                           |                           |                            |                            |                            |                            |                            |
| Type of Cooling                                    | Natural Cooling                                                                                                                                                                                                                                                                                                                        | Intelligent Air Cooling   |                           |                            |                            |                            |                            |                            |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                           |                           |                            |                            |                            |                            |                            |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                           |                           |                            |                            |                            |                            |                            |

# Split Phase Hybrid Inverter

SUN-8/10/12/15K-SG01HP2-US-AM2



## Efficient

- High voltage battery, higher efficiency



## Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



## Intelligent

- 6 time periods for battery charging/discharging



## Reliable

- Max. charging/discharging current of 50A
- Support storing energy from diesel generator
  - 100% unbalanced output

| Model                                              | SUN-8K-SG01HP2<br>-US-AM2                                                                                                                                                                                                                                                                                                              | SUN-10K-SG01HP2<br>-US-AM2 | SUN-12K-SG01HP2<br>-US-AM2 | SUN-15K-SG01HP2<br>-US-AM2 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Battery Voltage Range (V)                          | 160-500                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Max. Charging/Discharging Current (A)              | 50                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Max. PV access power (W)                           | 16000                                                                                                                                                                                                                                                                                                                                  | 20000                      | 24000                      | 30000                      |
| Max. PV Input Power (W)                            | 12000                                                                                                                                                                                                                                                                                                                                  | 15000                      | 18000                      | 22500                      |
| Max. PV Input Voltage (V)                          | 550                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| MPPT Voltage Range (V)                             | 150-500                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 380                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Max. Operating PV Input Current (A)                | 26+26                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Max. Input Short-Circuit Current (A)               | 39+39                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/2+2                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 8000                                                                                                                                                                                                                                                                                                                                   | 10000                      | 12000                      | 15000                      |
| Max. AC Input/Output Apparent Power (VA)           | 8000                                                                                                                                                                                                                                                                                                                                   | 10000                      | 12000                      | 15000                      |
| Rated AC Input/Output Current (A)                  | 33.4                                                                                                                                                                                                                                                                                                                                   | 41.7                       | 50                         | 62.5                       |
| Max. AC Input/Output Current (A)                   | 33.4                                                                                                                                                                                                                                                                                                                                   | 41.7                       | 50                         | 62.5                       |
| Max. Continuous AC Passthrough (grid to load) (A)  | 150                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                            |                            |                            |
| Rated input/output voltage                         | 120/240V,120/208V 0.88Un-1.1Un 2L+N+PE                                                                                                                                                                                                                                                                                                 |                            |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 60/55-65                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Communication Interface                            | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Noise (dB)                                         | ≤55                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Ingress Protection(IP) Rating                      | TYPE3R                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC),OVC IV(AC)                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 408×678×247 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Weight (kg)                                        | 30                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                            |                            |                            |
| Safety EMC/Standard                                | FCC, UL 1741                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |

# Three Phase Hybrid Inverter

SUN-8/10/12/15K-SG01HP3-US-AM2



## Efficient

- High voltage battery, higher efficiency



## Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



## Intelligent

- 6 time periods for battery charging/discharging



## Reliable

- Max. charging/discharging current of 50A
- Support storing energy from diesel generator
  - 100% unbalanced output

| Model                                              | SUN-8K-SG01HP3<br>-US-AM2                                                                                                                                                                                                                                                                                                              | SUN-10K-SG01HP3<br>-US-AM2 | SUN-12K-SG01HP3<br>-US-AM2 | SUN-15K-SG01HP3<br>-US-AM2 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Battery Voltage Range (V)                          | 160-500                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Max. Charging/Discharging Current (A)              | 50                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Max. PV access power (W)                           | 16000                                                                                                                                                                                                                                                                                                                                  | 20000                      | 24000                      | 30000                      |
| Max. PV Input Power (W)                            | 12000                                                                                                                                                                                                                                                                                                                                  | 15000                      | 18000                      | 22500                      |
| Max. PV Input Voltage (V)                          | 550                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| MPPT Voltage Range (V)                             | 150-500                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 380                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Max. Operating PV Input Current (A)                | 26+26                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Max. Input Short-Circuit Current (A)               | 39+39                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/2+2                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 8000                                                                                                                                                                                                                                                                                                                                   | 10000                      | 12000                      | 15000                      |
| Max. AC Input/Output Apparent Power (VA)           | 8000                                                                                                                                                                                                                                                                                                                                   | 10000                      | 12000                      | 15000                      |
| Rated AC Input/Output Current (A)                  | 22.3                                                                                                                                                                                                                                                                                                                                   | 27.8                       | 33.4                       | 41.7                       |
| Max. AC Input/Output Current (A)                   | 22.3                                                                                                                                                                                                                                                                                                                                   | 27.8                       | 33.4                       | 41.7                       |
| Max. Continuous AC Passthrough (grid to load) (A)  | 80                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                            |                            |                            |
| Rated input/output voltage                         | 120/208V 0.88Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 60/55-65                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Euro Efficiency                                    | 96.5%                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Communication Interface                            | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Noise (dB)                                         | ≤55                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Ingress Protection(IP) Rating                      | TYPE3R                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC),OVC IV(AC)                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 408×678×247 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Weight (kg)                                        | 30                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                            |                            |                            |
| Safety EMC/Standard                                | FCC, UL 1741                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |

# Three Phase Hybrid Inverter

SUN-25/29.9/30K-SG02HP3-EU-AM3



  
**Efficient**

- High voltage battery, higher efficiency

  
**Intelligent**

- 6 time periods for battery charging/discharging

  
**Flexible**

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

  
**Reliable**

- Max. charging/discharging current of 75A
- Support storing energy from diesel generator
  - 100% unbalanced output

| Model                                              | SUN-25K-SG02HP3-EU-AM3                                                                                                                                                                                                                                                                                                                 |           | SUN-29.9K-SG02HP3-EU-AM3 |  | SUN-30K-SG02HP3-EU-AM3 |  |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------|--|------------------------|--|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |           |                          |  |                        |  |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                            |           |                          |  |                        |  |
| Battery Voltage Range (V)                          | 160-700                                                                                                                                                                                                                                                                                                                                |           |                          |  |                        |  |
| Max. Charging/Discharging Current (A)              | 75                                                                                                                                                                                                                                                                                                                                     |           |                          |  |                        |  |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |           |                          |  |                        |  |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |           |                          |  |                        |  |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |           |                          |  |                        |  |
| Max. PV access power (W)                           | 50000                                                                                                                                                                                                                                                                                                                                  | 59800     | 60000                    |  |                        |  |
| Max. PV Input Power (W)                            | 40000                                                                                                                                                                                                                                                                                                                                  | 47840     | 48000                    |  |                        |  |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                   |           |                          |  |                        |  |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                    |           |                          |  |                        |  |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                |           |                          |  |                        |  |
| Rated PV Input Voltage (V)                         | 600                                                                                                                                                                                                                                                                                                                                    |           |                          |  |                        |  |
| Max. Operating PV Input Current (A)                | 36+36+36                                                                                                                                                                                                                                                                                                                               |           |                          |  |                        |  |
| Max. Input Short-Circuit Current (A)               | 54+54+54                                                                                                                                                                                                                                                                                                                               |           |                          |  |                        |  |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/2+2+2                                                                                                                                                                                                                                                                                                                                |           |                          |  |                        |  |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |           |                          |  |                        |  |
| Rated AC Input/Output Active Power (W)             | 25000                                                                                                                                                                                                                                                                                                                                  | 29900     | 30000                    |  |                        |  |
| Max. AC Input/Output Apparent Power (VA)           | 27500                                                                                                                                                                                                                                                                                                                                  | 29900     | 33000                    |  |                        |  |
| Rated AC Input/Output Current (A)                  | 37.9/36.3                                                                                                                                                                                                                                                                                                                              | 45.4/43.4 | 45.5/43.5                |  |                        |  |
| Max. AC Input/Output Current (A)                   | 41.7/39.9                                                                                                                                                                                                                                                                                                                              | 45.4/43.4 | 50/47.9                  |  |                        |  |
| Max. Continuous AC Passthrough (grid to load) (A)  | 80                                                                                                                                                                                                                                                                                                                                     |           |                          |  |                        |  |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                          |           |                          |  |                        |  |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |           |                          |  |                        |  |
| Rated input/output voltage                         | 220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                |           |                          |  |                        |  |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |           |                          |  |                        |  |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |           |                          |  |                        |  |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |           |                          |  |                        |  |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |           |                          |  |                        |  |
| Max. Efficiency                                    | 98.5%                                                                                                                                                                                                                                                                                                                                  |           |                          |  |                        |  |
| Euro Efficiency                                    | 98.0%                                                                                                                                                                                                                                                                                                                                  |           |                          |  |                        |  |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |           |                          |  |                        |  |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |           |                          |  |                        |  |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |           |                          |  |                        |  |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |           |                          |  |                        |  |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |           |                          |  |                        |  |
| LCD/LED Display                                    | LCD+LED                                                                                                                                                                                                                                                                                                                                |           |                          |  |                        |  |
| Communication Interface                            | RS485, RS232, CAN                                                                                                                                                                                                                                                                                                                      |           |                          |  |                        |  |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                   |           |                          |  |                        |  |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |           |                          |  |                        |  |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |           |                          |  |                        |  |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |           |                          |  |                        |  |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                  |           |                          |  |                        |  |
| Noise (dB)                                         | ≤55                                                                                                                                                                                                                                                                                                                                    |           |                          |  |                        |  |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |           |                          |  |                        |  |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                           |           |                          |  |                        |  |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |           |                          |  |                        |  |
| Cabinet Size (WxHxD mm)                            | 448×688×270 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |           |                          |  |                        |  |
| Weight (kg)                                        | 46                                                                                                                                                                                                                                                                                                                                     |           |                          |  |                        |  |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |           |                          |  |                        |  |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |           |                          |  |                        |  |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |           |                          |  |                        |  |

# Three Phase Hybrid Inverter

SUN-29.9/30/35K-SG01HP3-EU-BM3  
SUN-40/50K-SG01HP3-EU-BM4



## Efficient

- High voltage battery, higher efficiency



## Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



## Intelligent

- 6 time periods for battery charging/discharging



## Reliable

- Max. charging/discharging current of 100A
- Support storing energy from diesel generator
  - 100% unbalanced output

| Model                                              | SUN-29.9K-SG01<br>HP3-EU-BM3                                                                                                                                                                                                                                                                                                           | SUN-30K-SG01<br>HP3-EU-BM3 | SUN-35K-SG01<br>HP3-EU-BM3 | SUN-40K-SG01<br>HP3-EU-BM4 | SUN-50K-SG01<br>HP3-EU-BM4 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Battery Voltage Range (V)                          | 160-800                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Max. Charging/Discharging Current (A)              | 50+50                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Number of Battery Input                            | 2                                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Max. PV access power (W)                           | 59800                                                                                                                                                                                                                                                                                                                                  | 60000                      | 70000                      | 80000                      | 100000                     |
| Max. PV Input Power (W)                            | 47840                                                                                                                                                                                                                                                                                                                                  | 48000                      | 56000                      | 64000                      | 80000                      |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 600                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Max. Operating PV Input Current (A)                | 36+36+36                                                                                                                                                                                                                                                                                                                               |                            |                            | 36+36+36+36                |                            |
| Max. Input Short-Circuit Current (A)               | 55+55+55                                                                                                                                                                                                                                                                                                                               |                            |                            | 55+55+55+55                |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/2+2+2                                                                                                                                                                                                                                                                                                                                |                            |                            | 4/2+2+2+2                  |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 29900                                                                                                                                                                                                                                                                                                                                  | 30000                      | 35000                      | 40000                      | 50000                      |
| Max. AC Input/Output Apparent Power (VA)           | 29900                                                                                                                                                                                                                                                                                                                                  | 33000                      | 38500                      | 44000                      | 55000                      |
| Rated AC Input/Output Current (A)                  | 45.4/43.4                                                                                                                                                                                                                                                                                                                              | 45.5/43.5                  | 53.1/50.8                  | 60.7/58.0                  | 75.8/72.5                  |
| Max. AC Input/Output Current (A)                   | 45.4/43.4                                                                                                                                                                                                                                                                                                                              | 50/47.9                    | 58.4/55.8                  | 66.7/63.8                  | 83.4/79.8                  |
| Max. Continuous AC Passthrough (grid to load) (A)  | 200                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                          |                            |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                            |                            |                            |                            |
| Rated input/output voltage                         | 220/380V,230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                            |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Communication Interface                            | WIFI, RS485, CAN                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |                            |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Noise (dB)                                         | ≤65                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 527×894×294 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Weight (kg)                                        | 80                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                            |                            |                            |                            |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |

# Three Phase Hybrid Inverter

SUN-29.9/30/35K-SG02HP3-EU-BM3  
SUN-40/50K-SG02HP3-EU-BM4



## Efficient

- High voltage battery, higher efficiency



## Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



## Intelligent

- 6 time periods for battery charging/discharging



## Reliable

- Max. charging/discharging current of 100A
- Support storing energy from diesel generator
  - 100% unbalanced output

| Model                                              | SUN-29.9K-SG02<br>HP3-EU-BM3                                                                                                                                                                                                                                                                                                           | SUN-30K-SG02<br>HP3-EU-BM3 | SUN-35K-SG02<br>HP3-EU-BM3 | SUN-40K-SG02<br>HP3-EU-BM4 | SUN-50K-SG02<br>HP3-EU-BM4 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Battery Voltage Range (V)                          | 160-800                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Max. Charging/Discharging Current (A)              | 100                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Max. PV access power (W)                           | 59800                                                                                                                                                                                                                                                                                                                                  | 60000                      | 70000                      | 80000                      | 100000                     |
| Max. PV Input Power (W)                            | 47840                                                                                                                                                                                                                                                                                                                                  | 48000                      | 56000                      | 64000                      | 80000                      |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 600                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Max. Operating PV Input Current (A)                | 36+36+36                                                                                                                                                                                                                                                                                                                               |                            |                            | 36+36+36+36                |                            |
| Max. Input Short-Circuit Current (A)               | 55+55+55                                                                                                                                                                                                                                                                                                                               |                            |                            | 55+55+55+55                |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/2+2+2                                                                                                                                                                                                                                                                                                                                |                            |                            | 4/2+2+2+2                  |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 29900                                                                                                                                                                                                                                                                                                                                  | 30000                      | 35000                      | 40000                      | 50000                      |
| Max. AC Input/Output Apparent Power (VA)           | 29900                                                                                                                                                                                                                                                                                                                                  | 33000                      | 38500                      | 44000                      | 55000                      |
| Rated AC Input/Output Current (A)                  | 45.4/43.4                                                                                                                                                                                                                                                                                                                              | 45.5/43.5                  | 53.1/50.8                  | 60.7/58.0                  | 75.8/72.5                  |
| Max. AC Input/Output Current (A)                   | 45.4/43.4                                                                                                                                                                                                                                                                                                                              | 50/47.9                    | 58.4/55.8                  | 66.7/63.8                  | 83.4/79.8                  |
| Max. Continuous AC Passthrough (grid to load) (A)  | 200                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                          |                            |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                            |                            |                            |                            |
| Rated input/output voltage                         | 220/380V,230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                            |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Communication Interface                            | WIFI/RS485/CAN                                                                                                                                                                                                                                                                                                                         |                            |                            |                            |                            |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Noise (dB)                                         | ≤65                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 528×793×278 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Weight (kg)                                        | 65                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                            |                            |                            |                            |
| Safety / EMC Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |

# Three Phase Hybrid Inverter

SUN-29.9/30/35K-SG02HP3-EU-BM3-P  
SUN-40/50K-SG02HP3-EU-BM4-P



## Efficient

- High voltage battery, higher efficiency



## Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



## Intelligent

- 6 time periods for battery charging/discharging



## Reliable

- Max. charging/discharging current of 160A
- Support storing energy from diesel generator
  - 100% unbalanced output

| Model                                              | SUN-29.9K-SG02<br>HP3-EU-BM3-P                                                                                                                                                                                                                                                                                                         | SUN-30K-SG02<br>HP3-EU-BM3-P | SUN-35K-SG02<br>HP3-EU-BM3-P | SUN-40K-SG02<br>HP3-EU-BM4-P | SUN-50K-SG02<br>HP3-EU-BM4-P |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |                              |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                            |                              |                              |                              |                              |
| Battery Voltage Range (V)                          | 160-800                                                                                                                                                                                                                                                                                                                                |                              |                              |                              |                              |
| Max. Charging/Discharging Current (A)              | 160                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |                              |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                              |                              |                              |                              |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                      |                              |                              |                              |                              |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |                              |
| Max. PV access power (W)                           | 59800                                                                                                                                                                                                                                                                                                                                  | 60000                        | 70000                        | 80000                        | 100000                       |
| Max. PV Input Power (W)                            | 47840                                                                                                                                                                                                                                                                                                                                  | 48000                        | 56000                        | 64000                        | 80000                        |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                   |                              |                              |                              |                              |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |                              |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                |                              |                              |                              |                              |
| Rated PV Input Voltage (V)                         | 600                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |                              |
| Max. Operating PV Input Current (A)                | 36+36+36                                                                                                                                                                                                                                                                                                                               |                              |                              | 36+36+36+36                  |                              |
| Max. Input Short-Circuit Current (A)               | 55+55+55                                                                                                                                                                                                                                                                                                                               |                              |                              | 55+55+55+55                  |                              |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/2+2+2                                                                                                                                                                                                                                                                                                                                |                              |                              | 4/2+2+2+2                    |                              |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |                              |
| Rated AC Input/Output Active Power (W)             | 29900                                                                                                                                                                                                                                                                                                                                  | 30000                        | 35000                        | 40000                        | 50000                        |
| Max. AC Input/Output Apparent Power (VA)           | 29900                                                                                                                                                                                                                                                                                                                                  | 33000                        | 38500                        | 44000                        | 55000                        |
| Rated AC Input/Output Current (A)                  | 45.4/43.4                                                                                                                                                                                                                                                                                                                              | 45.5/43.5                    | 53.1/50.8                    | 60.7/58.0                    | 75.8/72.5                    |
| Max. AC Input/Output Current (A)                   | 45.4/43.4                                                                                                                                                                                                                                                                                                                              | 50/47.9                      | 58.4/55.8                    | 66.7/63.8                    | 83.4/79.8                    |
| Max. Continuous AC Passthrough (grid to load) (A)  | 200                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |                              |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                          |                              |                              |                              |                              |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                              |                              |                              |                              |
| Rated input/output voltage                         | 220/380V,230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                 |                              |                              |                              |                              |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                              |                              |                              |                              |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |                              |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                              |                              |                              |                              |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |                              |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                  |                              |                              |                              |                              |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                  |                              |                              |                              |                              |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                              |                              |                              |                              |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |                              |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                              |                              |                              |                              |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                              |                              |                              |                              |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |                              |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |                              |
| Communication Interface                            | WIFI/RS485/CAN                                                                                                                                                                                                                                                                                                                         |                              |                              |                              |                              |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G                                                                                                                                                                                                                                                                                                                 |                              |                              |                              |                              |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                              |                              |                              |                              |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                              |                              |                              |                              |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                              |                              |                              |                              |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                  |                              |                              |                              |                              |
| Noise (dB)                                         | ≤65                                                                                                                                                                                                                                                                                                                                    |                              |                              |                              |                              |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                              |                              |                              |                              |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                           |                              |                              |                              |                              |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                              |                              |                              |                              |
| Cabinet Size (WxHxD mm)                            | 528×793×278 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                              |                              |                              |                              |
| Weight (kg)                                        | 65                                                                                                                                                                                                                                                                                                                                     |                              |                              |                              |                              |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                              |                              |                              |                              |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                              |                              |                              |                              |
| Safety / EMC Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                              |                              |                              |                              |

# Three Phase Hybrid Inverter

SUN-60/70/75/80K-SG02HP3-EU-EM6



## Efficient

- High voltage battery, higher efficiency

## Intelligent

- 6 time periods for battery charging/discharging

## Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

## Reliable

- Max. charging/discharging current of 160A
- Support storing energy from diesel generator

| Model                                              | SUN-60K-SG02HP3<br>-EU-EM6                                                                                                                                                                                                                                                                                                             | SUN-70K-SG02HP3<br>-EU-EM6 | SUN-75K-SG02HP3<br>-EU-EM6 | SUN-80K-SG02HP3<br>-EU-EM6 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Battery Voltage Range (V)                          | 160-1000                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Max. Charging/Discharging Current (A)              | 80+80                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |
| Number of Battery Input                            | 2                                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Max. PV access power (W)                           | 120000                                                                                                                                                                                                                                                                                                                                 | 140000                     | 150000                     | 160000                     |
| Max. PV Input Power (W)                            | 96000                                                                                                                                                                                                                                                                                                                                  | 112000                     | 120000                     | 128000                     |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 650                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Max. Operating PV Input Current (A)                | 36+36+36+36+36+36                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |
| Max. Input Short-Circuit Current (A)               | 54+54+54+54+54+54                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 6/2+2+2+2+2+2                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 60000                                                                                                                                                                                                                                                                                                                                  | 70000                      | 75000                      | 80000                      |
| Max. AC Input/Output Apparent Power (VA)           | 66000                                                                                                                                                                                                                                                                                                                                  | 77000                      | 82500                      | 88000                      |
| Rated AC Input/Output Current (A)                  | 91/87                                                                                                                                                                                                                                                                                                                                  | 106.1/101.5                | 113.7/108.7                | 121.3/116                  |
| Max. AC Input/Output Current (A)                   | 100/95.7                                                                                                                                                                                                                                                                                                                               | 116.7/111.6                | 125/119.6                  | 133.4/127.6                |
| Max. Continuous AC Passthrough (grid to load) (A)  | 200                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                            |                            |                            |
| Rated input/output voltage                         | 220/380V,230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                 |                            |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Max. Efficiency                                    | 98.70%                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |
| Euro Efficiency                                    | 98.10%                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| LCD/LED Display                                    | LCD+LED                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Communication Interface                            | RS485,RS232,CAN                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                   |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Noise (dB)                                         | ≤65                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 606×927×314 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Weight (kg)                                        | 105                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Type of Cooling                                    | Smart Cooling                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                            |                            |                            |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                            |                            |                            |

# Three Phase Hybrid Inverter

SUN-100K-SG02HP3-EU-GM8  
SUN-100/125K-SG02HP3-EU-GM10



## Efficient

- High voltage battery, higher efficiency



## Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel



## Intelligent

- 6 time periods for battery charging/discharging

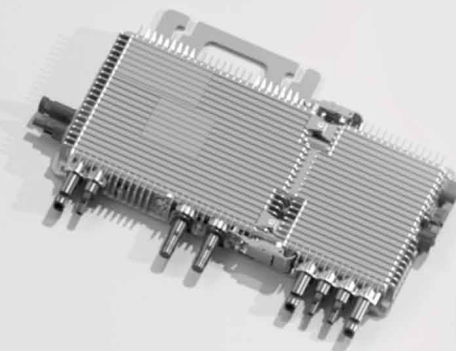
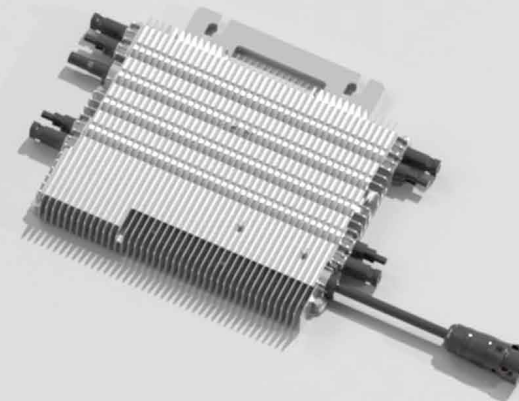
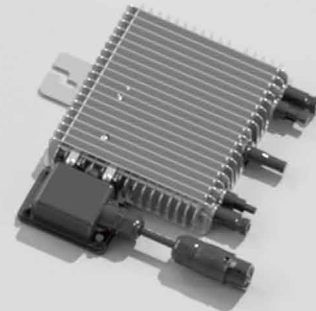
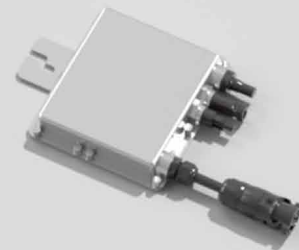


## Reliable

- Max. charging/discharging current of 200A
- Support storing energy from diesel generator

| Model                                              | SUN-100K-SG02HP3-EU-GM8                                                                                                                                                                                                                                                                                                                |                            | SUN-100K-SG02HP3-EU-GM10 |  | SUN-125K-SG02HP3-EU-GM10 |  |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|--|--------------------------|--|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                        |                            |                          |  |                          |  |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                            |                            |                          |  |                          |  |
| Battery Voltage Range (V)                          | 160-1000                                                                                                                                                                                                                                                                                                                               |                            |                          |  |                          |  |
| Max. Charging/Discharging Current (A)              | 100+100                                                                                                                                                                                                                                                                                                                                |                            |                          |  |                          |  |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                   |                            |                          |  |                          |  |
| Number of Battery Input                            | 2                                                                                                                                                                                                                                                                                                                                      |                            |                          |  |                          |  |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                          |  |                          |  |
| Max. PV access power (W)                           | 200000                                                                                                                                                                                                                                                                                                                                 | 200000                     | 250000                   |  |                          |  |
| Max. PV Input Power (W)                            | 160000                                                                                                                                                                                                                                                                                                                                 | 160000                     | 200000                   |  |                          |  |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                   |                            |                          |  |                          |  |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                    |                            |                          |  |                          |  |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                |                            |                          |  |                          |  |
| Rated PV Input Voltage (V)                         | 650                                                                                                                                                                                                                                                                                                                                    |                            |                          |  |                          |  |
| Max. Operating PV Input Current (A)                | 42+42+42+42+42+42+42+42                                                                                                                                                                                                                                                                                                                | 42+42+42+42+42+42+42+42+42 |                          |  |                          |  |
| Max. Input Short-Circuit Current (A)               | 63+63+63+63+63+63+63+63                                                                                                                                                                                                                                                                                                                | 63+63+63+63+63+63+63+63+63 |                          |  |                          |  |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 8/2+2+2+2+2+2+2                                                                                                                                                                                                                                                                                                                        | 10/2+2+2+2+2+2+2+2         |                          |  |                          |  |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                        |                            |                          |  |                          |  |
| Rated AC Input/Output Active Power (W)             | 100000                                                                                                                                                                                                                                                                                                                                 | 100000                     | 125000                   |  |                          |  |
| Max. AC Input/Output Apparent Power (VA)           | 110000                                                                                                                                                                                                                                                                                                                                 | 110000                     | 135000                   |  |                          |  |
| Rated AC Input/Output Current (A)                  | 151.6/145.0                                                                                                                                                                                                                                                                                                                            | 151.6/145.0                | 189.4/181.2              |  |                          |  |
| Max. AC Input/Output Current (A)                   | 166.7/159.5                                                                                                                                                                                                                                                                                                                            | 166.7/159.5                | 204.6/195.7              |  |                          |  |
| Max. Continuous AC Passthrough (grid to load) (A)  | 250                                                                                                                                                                                                                                                                                                                                    |                            |                          |  |                          |  |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                          |                            |                          |  |                          |  |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                             |                            |                          |  |                          |  |
| Rated input/output voltage                         | 220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                |                            |                          |  |                          |  |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                     |                            |                          |  |                          |  |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                                                                                    |                            |                          |  |                          |  |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                               |                            |                          |  |                          |  |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                        |                            |                          |  |                          |  |
| Max. Efficiency                                    | 98.70%                                                                                                                                                                                                                                                                                                                                 |                            |                          |  |                          |  |
| Euro Efficiency                                    | 98.10%                                                                                                                                                                                                                                                                                                                                 |                            |                          |  |                          |  |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                   |                            |                          |  |                          |  |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                        |                            |                          |  |                          |  |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection |                            |                          |  |                          |  |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                               |                            |                          |  |                          |  |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                        |                            |                          |  |                          |  |
| LCD/LED Display                                    | LCD+LED                                                                                                                                                                                                                                                                                                                                |                            |                          |  |                          |  |
| Communication Interface                            | RS485,RS232,CAN                                                                                                                                                                                                                                                                                                                        |                            |                          |  |                          |  |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                   |                            |                          |  |                          |  |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                        |                            |                          |  |                          |  |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                           |                            |                          |  |                          |  |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                 |                            |                          |  |                          |  |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                  |                            |                          |  |                          |  |
| Noise (dB)                                         | ≤65                                                                                                                                                                                                                                                                                                                                    |                            |                          |  |                          |  |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                  |                            |                          |  |                          |  |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                           |                            |                          |  |                          |  |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                |                            |                          |  |                          |  |
| Cabinet Size (WxHxD mm)                            | 734×1091×344 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                       |                            |                          |  |                          |  |
| Weight (kg)                                        | 161.7                                                                                                                                                                                                                                                                                                                                  |                            |                          |  |                          |  |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                |                            |                          |  |                          |  |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                     |                            |                          |  |                          |  |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                 |                            |                          |  |                          |  |

Micro Inverter



# 03

## MICROINVERTER

### Deye microinverter 300-2250W

Deye microinverter offers a spectrum of power options ranging from 300W to 2250W, accompanied by one, two, or four-way Maximum Power Point Tracking (MPPT). It features module-level monitoring and optimization, Wi-Fi direct connection, and capabilities for remote rapid shutdown.

The complete Network & System protection ensures the safe operation of the product within home electrical grids. Installation is easy and straightforward; by connecting to a Wi-Fi hotspot, the product can join the home WLAN network for cloud-based monitoring and management.

Deye Microinverters provide a more cost-effective and convenient solution for small photovoltaic power stations and balcony photovoltaic systems.

# Microinverter

SUN-M30/40/50G4-EU-Q0-I



### Safe

- Complete NS protection with self-check function
  - Rapid shutdown function



### Intuitive

- Wi-Fi communication
- Easy installation, suitable for quick-plug balcony PV systems



### Reliable

- 25 years design lifetime, 10 years warranty
  - IP67 protection degree



### Efficient

- 1 MPP tracker, module level monitoring
- <100ms AC fast discharge, compliant with DIN VDE 0126-95 (<200ms) safety standard
- External relay design with low temperature, long life and easier maintenance

| Model                                              | SUN-M30G4-EU-Q0-I                                      | SUN-M40G4-EU-Q0-I | SUN-M50G4-EU-Q0-I |
|----------------------------------------------------|--------------------------------------------------------|-------------------|-------------------|
| PV String Input Data                               |                                                        |                   |                   |
| Max. PV Input Power (W)                            | 210-420(1 Pieces)                                      | 210-560(1 Pieces) | 210-700(1 Pieces) |
| Max. PV Input Voltage (V)                          | 60                                                     |                   |                   |
| Start-up Voltage (V)                               | 20                                                     |                   |                   |
| MPPT Voltage Range (V)                             | 25-55                                                  |                   |                   |
| Rated PV Input Voltage (V)                         | 42.5                                                   |                   |                   |
| Max. Operating PV Input Current (A)                | 15                                                     |                   |                   |
| Max. Input Short-Circuit Current (A)               | 22.5                                                   |                   |                   |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1                                                    |                   |                   |
| AC Output Data                                     |                                                        |                   |                   |
| Rated AC Output Active Power (W)                   | 300                                                    | 400               | 500               |
| Max. AC Output Apparent Power (VA)                 | 300                                                    | 400               | 500               |
| Rated AC Output Current (A)                        | 1.4/1.4                                                | 1.9/1.8           | 2.3/2.2           |
| Max. AC Output Current (A)                         | 1.4/1.4                                                | 1.9/1.8           | 2.3/2.2           |
| Max. Unit per Branch                               | 17                                                     | 13                | 10                |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un L/N/PE                           |                   |                   |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |                   |                   |
| Power Factor Adjustment Range                      | 0.9 leading to 0.9 lagging                             |                   |                   |
| Total Current Harmonic Distortion THDi             | <3%                                                    |                   |                   |
| DC Injection Current                               | <0.5%In                                                |                   |                   |
| Efficiency                                         |                                                        |                   |                   |
| Max. Efficiency                                    | 96.5%                                                  |                   |                   |
| Euro Efficiency                                    | 96.0%                                                  |                   |                   |
| MPPT Efficiency                                    | >99%                                                   |                   |                   |
| Equipment Protection                               |                                                        |                   |                   |
| DC Reverse Polarity Protection                     | Yes                                                    |                   |                   |
| AC Output Overcurrent Protection                   | Yes                                                    |                   |                   |
| AC Output Overvoltage Protection                   | Yes                                                    |                   |                   |
| AC Output Short Circuit Protection                 | Yes                                                    |                   |                   |
| Thermal Protection                                 | Yes                                                    |                   |                   |
| Insulation Impedance Detection                     | Yes                                                    |                   |                   |
| Anti-islanding Protection                          | Yes                                                    |                   |                   |
| Surge Protection Level                             | TYPE II(AC)                                            |                   |                   |
| Interface                                          |                                                        |                   |                   |
| Communication Interface                            | Wi-Fi                                                  |                   |                   |
| General Data                                       |                                                        |                   |                   |
| Operating Temperature Range (°C)                   | -40 to +65°C, >45°C Derating                           |                   |                   |
| Permissible Ambient Humidity                       | 0-100%                                                 |                   |                   |
| Permissible Altitude (m)                           | 2000m                                                  |                   |                   |
| Noise (dB)                                         | ≤25                                                    |                   |                   |
| Ingress Protection(IP) Rating                      | IP 67                                                  |                   |                   |
| Inverter Topology                                  | Isolated                                               |                   |                   |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |                   |                   |
| Cabinet Size (WxHxD mm)                            | 173×158.5×31.5 (Excluding Connectors and Brackets)     |                   |                   |
| Weight (kg)                                        | 1.85                                                   |                   |                   |
| Warranty                                           | 10 Years                                               |                   |                   |
| Type of Cooling                                    | Natural Cooling                                        |                   |                   |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                   |                   |

# Microinverter

SUN-M60/80/100G4-EU-Q0



### Safe

- Complete NS protection with self-check function
  - Rapid shutdown function



### Intuitive

- Wi-Fi communication
- Easy installation, suitable for quick-plug balcony PV systems



### Reliable

- 25 years design lifetime, 10 years warranty
  - IP67 protection degree



### Efficient

- 2 MPP tracker, module level monitoring
- <100ms AC fast discharge, compliant with DIN VDE 0126-95 (<200ms) safety standard
- External relay design with low temperature, long life and easier maintenance

| Model                                              | SUN-M60G4-EU-Q0                                        | SUN-M80G4-EU-Q0   | SUN-M100G4-EU-Q0  |
|----------------------------------------------------|--------------------------------------------------------|-------------------|-------------------|
| PV String Input Data                               |                                                        |                   |                   |
| Max. PV Input Power (W)                            | 210-420(2 Pieces)                                      | 210-560(2 Pieces) | 210-700(2 Pieces) |
| Max. PV Input Voltage (V)                          | 60                                                     |                   |                   |
| Start-up Voltage (V)                               | 20                                                     |                   |                   |
| MPPT Voltage Range (V)                             | 25-55                                                  |                   |                   |
| Rated PV Input Voltage (V)                         | 42.5                                                   |                   |                   |
| Max. Operating PV Input Current (A)                | 13+13                                                  |                   |                   |
| Max. Input Short-Circuit Current (A)               | 19.5+19.5                                              |                   |                   |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1                                                    |                   |                   |
| AC Output Data                                     |                                                        |                   |                   |
| Rated AC Output Active Power (W)                   | 600                                                    | 800               | 1000              |
| Max. AC Output Apparent Power (VA)                 | 600                                                    | 800               | 1000              |
| Rated AC Output Current (A)                        | 2.8/2.7                                                | 3.7/3.5           | 4.6/4.4           |
| Max. AC Output Current (A)                         | 2.8/2.7                                                | 3.7/3.5           | 4.6/4.4           |
| Max. Unit per Branch                               | 8                                                      | 6                 | 5                 |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un L/N/PE                           |                   |                   |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |                   |                   |
| Power Factor Adjustment Range                      | 0.9 leading to 0.9 lagging                             |                   |                   |
| Total Current Harmonic Distortion THDi             | <3%                                                    |                   |                   |
| DC Injection Current                               | <0.5%In                                                |                   |                   |
| Efficiency                                         |                                                        |                   |                   |
| Max. Efficiency                                    | 96.5%                                                  |                   |                   |
| Euro Efficiency                                    | 96.0%                                                  |                   |                   |
| MPPT Efficiency                                    | >99%                                                   |                   |                   |
| Equipment Protection                               |                                                        |                   |                   |
| DC Reverse Polarity Protection                     | Yes                                                    |                   |                   |
| AC Output Overcurrent Protection                   | Yes                                                    |                   |                   |
| AC Output Overvoltage Protection                   | Yes                                                    |                   |                   |
| AC Output Short Circuit Protection                 | Yes                                                    |                   |                   |
| Thermal Protection                                 | Yes                                                    |                   |                   |
| Insulation Impedance Detection                     | Yes                                                    |                   |                   |
| Anti-islanding Protection                          | Yes                                                    |                   |                   |
| Surge Protection Level                             | TYPE II(AC)                                            |                   |                   |
| Interface                                          |                                                        |                   |                   |
| Communication Interface                            | Wi-Fi                                                  |                   |                   |
| General Data                                       |                                                        |                   |                   |
| Operating Temperature Range (°C)                   | -40 to +65°C, >45°C Derating                           |                   |                   |
| Permissible Ambient Humidity                       | 0-100%                                                 |                   |                   |
| Permissible Altitude (m)                           | 2000m                                                  |                   |                   |
| Noise (dB)                                         | ≤25                                                    |                   |                   |
| Ingress Protection(IP) Rating                      | IP 67                                                  |                   |                   |
| Inverter Topology                                  | Isolated                                               |                   |                   |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |                   |                   |
| Cabinet Size (WxHxD mm)                            | 280.5×190×40 (Excluding Connectors and Brackets)       |                   |                   |
| Weight (kg)                                        | 3                                                      |                   |                   |
| Warranty                                           | 10 Years                                               |                   |                   |
| Type of Cooling                                    | Natural Cooling                                        |                   |                   |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                   |                   |

# Microinverter

## SUN-M130/160/180/200/220G4-EU-Q0



### Safe

- Rapid shutdown function



### Intuitive

- Wi-Fi communication



### Reliable

- IP67 protection degree, 10 years warranty



### Efficient

- 4 MPP trackers, module level monitoring
- Max. DC input current of 18A, adapt to 770W PV module

| Model                                              | SUN-M130G4<br>-EU-Q0                                   | SUN-M160G4<br>-EU-Q0 | SUN-M180G4<br>-EU-Q0 | SUN-M200G4<br>-EU-Q0 | SUN-M220G4<br>-EU-Q0 |
|----------------------------------------------------|--------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|
| PV String Input Data                               |                                                        |                      |                      |                      |                      |
| Max. PV Input Power (W)                            | 210-460 (4 Pieces)                                     | 210-560 (4 Pieces)   | 210-630 (4 Pieces)   | 210-700 (4 Pieces)   | 210-770 (4 Pieces)   |
| Max. PV Input Voltage (V)                          | 60                                                     |                      |                      |                      |                      |
| Start-up Voltage (V)                               | 20                                                     |                      |                      |                      |                      |
| MPPT Voltage Range (V)                             | 25-55                                                  |                      |                      |                      |                      |
| Rated PV Input Voltage (V)                         | 42.5                                                   |                      |                      |                      |                      |
| Max. Operating PV Input Current (A)                | 15+15+15+15                                            |                      |                      |                      | 18+18+18+18          |
| Max. Input Short-Circuit Current (A)               | 22.5+22.5+22.5+22.5                                    |                      |                      |                      | 27+27+27+27          |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 4/1                                                    |                      |                      |                      |                      |
| AC Output Data                                     |                                                        |                      |                      |                      |                      |
| Rated AC Output Active Power (W)                   | 1300                                                   | 1600                 | 1800                 | 2000                 | 2200                 |
| Max. AC Output Apparent Power (VA)                 | 1300                                                   | 1600                 | 1800                 | 2000                 | 2200                 |
| Rated AC Output Current (A)                        | 6/5.7                                                  | 7.3/7                | 8.2/7.9              | 9.1/8.7              | 10/9.6               |
| Max. AC Output Current (A)                         | 6/5.7                                                  | 7.3/7                | 8.2/7.9              | 9.1/8.7              | 10/9.6               |
| Max. Unit per Branch                               | 5                                                      | 4                    | 3                    | 3                    | 3                    |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un L/N/PE                           |                      |                      |                      |                      |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |                      |                      |                      |                      |
| Power Factor Adjustment Range                      | 0.9 leading to 0.9 lagging                             |                      |                      |                      |                      |
| Total Current Harmonic Distortion THDi             | <3%                                                    |                      |                      |                      |                      |
| DC Injection Current                               | <0.5%In                                                |                      |                      |                      |                      |
| Efficiency                                         |                                                        |                      |                      |                      |                      |
| Max. Efficiency                                    | 96.5%                                                  |                      |                      |                      |                      |
| Euro Efficiency                                    | 96.0%                                                  |                      |                      |                      |                      |
| MPPT Efficiency                                    | >99%                                                   |                      |                      |                      |                      |
| Equipment Protection                               |                                                        |                      |                      |                      |                      |
| DC Reverse Polarity Protection                     | Yes                                                    |                      |                      |                      |                      |
| AC Output Overcurrent Protection                   | Yes                                                    |                      |                      |                      |                      |
| AC Output Overvoltage Protection                   | Yes                                                    |                      |                      |                      |                      |
| AC Output Short Circuit Protection                 | Yes                                                    |                      |                      |                      |                      |
| Thermal Protection                                 | Yes                                                    |                      |                      |                      |                      |
| Insulation Impedance Detection                     | Yes                                                    |                      |                      |                      |                      |
| Anti-islanding Protection                          | Yes                                                    |                      |                      |                      |                      |
| Surge Protection Level                             | TYPE II(AC)                                            |                      |                      |                      |                      |
| Interface                                          |                                                        |                      |                      |                      |                      |
| Communication Interface                            | Wi-Fi                                                  |                      |                      |                      |                      |
| General Data                                       |                                                        |                      |                      |                      |                      |
| Operating Temperature Range (°C)                   | -40 to +65°C, >45°C Derating                           |                      |                      |                      |                      |
| Permissible Ambient Humidity                       | 0-100%                                                 |                      |                      |                      |                      |
| Permissible Altitude (m)                           | 2000m                                                  |                      |                      |                      |                      |
| Noise (dB)                                         | ≤25                                                    |                      |                      |                      |                      |
| Ingress Protection(IP) Rating                      | IP 67                                                  |                      |                      |                      |                      |
| Inverter Topology                                  | Isolated                                               |                      |                      |                      |                      |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |                      |                      |                      |                      |
| Cabinet Size (WxHxD mm)                            | 311×250.5×36.5 (Excluding Connectors and Brackets)     |                      |                      |                      | 358×255.5×36.5       |
| Weight (kg)                                        | 5.1                                                    |                      |                      |                      | 5.2                  |
| Warranty                                           | 10 Years                                               |                      |                      |                      |                      |
| Type of Cooling                                    | Natural Cooling                                        |                      |                      |                      |                      |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                      |                      |                      |                      |

# Microinverter

SUN-M130/160/180/200/220G4-EU-Q0-I



### Reliable

- IP67 protection degree, 10 years warranty



### Safe

- Rapid shutdown function
- Bidirectional measurement can record electricity consumption data while also preventing backflow



### Intuitive

- Wireless wifi communication, no wiring required



### Efficient

- 4 MPP trackers, module level monitoring
- Max. DC input current of 18A, adapt to 770W PV module

| Model                                              | SUN-M130G4<br>-EU-Q0-I                                 | SUN-M160G4<br>-EU-Q0-I | SUN-M180G4<br>-EU-Q0-I | SUN-M200G4<br>-EU-Q0-I | SUN-M220G4<br>-EU-Q0-I |
|----------------------------------------------------|--------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| PV String Input Data                               |                                                        |                        |                        |                        |                        |
| Max. PV Input Power (W)                            | 210-460 (4 Pieces)                                     | 210-560 (4 Pieces)     | 210-630 (4 Pieces)     | 210-700 (4 Pieces)     | 210-770 (4 Pieces)     |
| Max. PV Input Voltage (V)                          | 60                                                     |                        |                        |                        |                        |
| Start-up Voltage (V)                               | 20                                                     |                        |                        |                        |                        |
| MPPT Voltage Range (V)                             | 25-55                                                  |                        |                        |                        |                        |
| Rated PV Input Voltage (V)                         | 42.5                                                   |                        |                        |                        |                        |
| Max. Operating PV Input Current (A)                | 18+18+18+18                                            |                        |                        |                        |                        |
| Max. Input Short-Circuit Current (A)               | 27+27+27+27                                            |                        |                        |                        |                        |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 4/1                                                    |                        |                        |                        |                        |
| AC Output Data                                     |                                                        |                        |                        |                        |                        |
| Rated AC Output Active Power (W)                   | 1300                                                   | 1600                   | 1800                   | 2000                   | 2200                   |
| Max. AC Output Apparent Power (VA)                 | 1300                                                   | 1600                   | 1800                   | 2000                   | 2200                   |
| Rated AC Output Current (A)                        | 6/5.7                                                  | 7.3/7                  | 8.2/7.9                | 9.1/8.7                | 10/9.6                 |
| Max. AC Output Current (A)                         | 6/5.7                                                  | 7.3/7                  | 8.2/7.9                | 9.1/8.7                | 10/9.6                 |
| Max. Unit per Branch                               | 5                                                      | 4                      | 3                      | 3                      | 3                      |
| Rated input/output voltage                         | 220/230V 0.85Un-1.1Un L/N/PE                           |                        |                        |                        |                        |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55, 60/55-65                                     |                        |                        |                        |                        |
| Power Factor Adjustment Range                      | 0.9 leading to 0.9 lagging                             |                        |                        |                        |                        |
| Total Current Harmonic Distortion THDi             | <3%                                                    |                        |                        |                        |                        |
| DC Injection Current                               | <0.5%In                                                |                        |                        |                        |                        |
| Efficiency                                         |                                                        |                        |                        |                        |                        |
| Max. Efficiency                                    | 96.5%                                                  |                        |                        |                        |                        |
| Euro Efficiency                                    | 96.0%                                                  |                        |                        |                        |                        |
| MPPT Efficiency                                    | >99%                                                   |                        |                        |                        |                        |
| Equipment Protection                               |                                                        |                        |                        |                        |                        |
| DC Reverse Polarity Protection                     | Yes                                                    |                        |                        |                        |                        |
| AC Output Overcurrent Protection                   | Yes                                                    |                        |                        |                        |                        |
| AC Output Overvoltage Protection                   | Yes                                                    |                        |                        |                        |                        |
| AC Output Short Circuit Protection                 | Yes                                                    |                        |                        |                        |                        |
| Thermal Protection                                 | Yes                                                    |                        |                        |                        |                        |
| Insulation Impedance Detection                     | Yes                                                    |                        |                        |                        |                        |
| Anti-islanding Protection                          | Yes                                                    |                        |                        |                        |                        |
| Surge Protection Level                             | TYPE II(AC)                                            |                        |                        |                        |                        |
| Interface                                          |                                                        |                        |                        |                        |                        |
| Communication Interface                            | Wi-Fi                                                  |                        |                        |                        |                        |
| General Data                                       |                                                        |                        |                        |                        |                        |
| Operating Temperature Range (°C)                   | -40 to +65°C, >45°C Derating                           |                        |                        |                        |                        |
| Permissible Ambient Humidity                       | 0-100%                                                 |                        |                        |                        |                        |
| Permissible Altitude (m)                           | 2000m                                                  |                        |                        |                        |                        |
| Noise (dB)                                         | ≤25                                                    |                        |                        |                        |                        |
| Ingress Protection(IP) Rating                      | IP 67                                                  |                        |                        |                        |                        |
| Inverter Topology                                  | Isolated                                               |                        |                        |                        |                        |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |                        |                        |                        |                        |
| Cabinet Size (WxHxD mm)                            | 358×255.5×36.5 (Excluding Connectors and Brackets)     |                        |                        |                        |                        |
| Weight (kg)                                        | 4.95                                                   |                        |                        |                        |                        |
| Warranty                                           | 10 Years                                               |                        |                        |                        |                        |
| Type of Cooling                                    | Natural Cooling                                        |                        |                        |                        |                        |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                        |                        |                        |                        |

# wireless energy management system

SUN-SMART-SWITCH02P3  
SUN-EVSE11K01-EU-AC  
SUN-SMART-TX01

SUN-SMART-PLUG01-F  
SUN-EVSE22K01-EU-AC  
SUN-SMART-CT02-WL



### Seamless Compatibility

- Supports all Deye hybrid inverters



### Intelligent Control

- Easily define critical & non-critical loads
- Charging control strategy based on time
  - Smart Load Management



### Energy Optimization

- Maximize the use of solar power
- Minimize the electricity bill as much as possible



### LoRa Communication

- Low latency
- Long-range communication
- Offline operation



Model SUN-SMART-SWITCH02P3

| Electrical Parameters         |                                             |
|-------------------------------|---------------------------------------------|
| Voltage Range                 | 94-238Va.c.(Phase voltage)                  |
| Connection Type               | L1/N(single phase), L1/L2/L3/N(three phase) |
| Maximum Current               | 25Aa.c.(Phase current)                      |
| Frequency and Range           | 50Hz(45Hz-55Hz)/ 60Hz(55Hz-65Hz)            |
| Connection                    | Connector plug-in type                      |
| Communication                 |                                             |
| Communication Model           | LoRa                                        |
| Lora Communication Distance   | ≈200m(Barrier free)                         |
| Basic Parameters              |                                             |
| Working Temperature Range     | -40 to +45°C                                |
| Allow Environmental Humidity  | 0-100% RH                                   |
| Ingress Protection(IP) Rating | IP65                                        |
| Protection level              | CLASS I                                     |
| Allowable altitude            | ≤4000m                                      |
| Operating Environment         | Outdoor                                     |
| Product size (WxHxD)          | 96.7x204.7x37.7mm                           |
| Weight                        | 0.4kg                                       |
| Warranty                      | 5 Years                                     |
| Standard                      | IEC/EN 61010-1                              |
| LoRa Parameters               |                                             |
| Frequency Range               | 863MHz-870MHz                               |
| Antenna                       | Internal antenna                            |
| Antenna Gain                  | 0.38dBi@868MHz                              |

Model SUN-SMART-PLUG01-F

| Electrical Parameters         |                                 |
|-------------------------------|---------------------------------|
| Rated voltage                 | 220-250Va.c.                    |
| Maximum current               | 16Aa.c.                         |
| Frequency and Range           | 50Hz(45Hz-55Hz)/60Hz(55Hz-65Hz) |
| Connection                    | Plug-type                       |
| Communication                 |                                 |
| Communication Model           | LoRa                            |
| Lora Communication Distance   | ≈200m(Barrier free)             |
| Basic Parameters              |                                 |
| Working Temperature Range     | -40 to +60°C                    |
| Ingress Protection(IP) Rating | IP20                            |
| Protection level              | CLASS I                         |
| Allowable altitude            | ≤3000m                          |
| Product size (WxHxD)          | 51.2x51.2x64mm                  |
| Weight                        | 0.08kg                          |
| Warranty                      | 5 Years                         |
| Standard                      | VDE 0620-2-1;EN 61058           |
| LoRa                          |                                 |
| Frequency Range               | 863MHz-870MHz                   |
| Antenna                       | Internal antenna                |
| Antenna Gain                  | 0.3.23dBi@868MHz                |



|       |                     |                     |
|-------|---------------------|---------------------|
| Model | SUN-EVSE11K01-EU-AC | SUN-EVSE22K01-EU-AC |
|-------|---------------------|---------------------|

|                                  |                                                                                                                                                                                                                                                                     |                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Product Parameter                |                                                                                                                                                                                                                                                                     |                                         |
| Input Voltage/Range (V)          | 230/400                                                                                                                                                                                                                                                             | 230(single phase), 230/400(three phase) |
| Connection Mode                  | 3L+N+PE                                                                                                                                                                                                                                                             | L+N+PE, 3L+N+PE                         |
| Input Current (A)                | 16                                                                                                                                                                                                                                                                  | 32                                      |
| Input Frequency/Range            | 50/45-55, 60/55-65                                                                                                                                                                                                                                                  |                                         |
| Maximum Output Power (kW)        | 11                                                                                                                                                                                                                                                                  | 7(single phase)/ 22(three phase)        |
| Starting Method                  | Plug and Play /Scheduled Charging                                                                                                                                                                                                                                   |                                         |
| Equipment Protection             |                                                                                                                                                                                                                                                                     |                                         |
| Integrated                       | Over Temperature Protection, Low Temperature Protection, Over Voltage Protection, Under Voltage Protection, Short Circuit Protection, Over Load Protection, Earth Fault Protection                                                                                  |                                         |
| Leakage Current Protection       | DC 6mA                                                                                                                                                                                                                                                              |                                         |
| Surge Protection Level           | TYPE II                                                                                                                                                                                                                                                             |                                         |
| General Data                     |                                                                                                                                                                                                                                                                     |                                         |
| Operating Temperature Range (°C) | -40 to +55°C                                                                                                                                                                                                                                                        |                                         |
| Permissible Ambient Humidity     | 5%~95% No condensation                                                                                                                                                                                                                                              |                                         |
| Permissible Altitude (m)         | ≤3000                                                                                                                                                                                                                                                               |                                         |
| Noise (dB)                       | <25                                                                                                                                                                                                                                                                 |                                         |
| Ingress Protection(IP) Rating    | IP 66                                                                                                                                                                                                                                                               |                                         |
| Cabinet Size (WxHxD mm)          | 104x264x57.5                                                                                                                                                                                                                                                        |                                         |
| Weight (kg)                      | 3.7                                                                                                                                                                                                                                                                 |                                         |
| Gun Cable Length (m)             | 4.2                                                                                                                                                                                                                                                                 |                                         |
| Number Of Charging Guns          | 1                                                                                                                                                                                                                                                                   |                                         |
| MTBF                             | 100,000h                                                                                                                                                                                                                                                            |                                         |
| Safety EMC/Standard              | EN IEC 61851-1:2019, IEC 61851-1:2017, EN 300 220-2 V3.1.1:2017, EN 300 328 V2.2.2:2019, EN IEC 62311:2020<br>EN 301 489-1 V2.2.3:2019, EN 301 489-3 V2.3.2:2023, EN 301 489-17 V3.3.1:2024, EN IEC 61000-6-1:2019<br>EN IEC 61000-6-3:2021, EN IEC 61851-21-2:2021 |                                         |
| Interface                        |                                                                                                                                                                                                                                                                     |                                         |
| Communication Mode               | LoRa/Wi-Fi/BLE                                                                                                                                                                                                                                                      |                                         |
| Model                            |                                                                                                                                                                                                                                                                     |                                         |
| SUN-SMART-TX01                   |                                                                                                                                                                                                                                                                     |                                         |
| Electrical Parameters            |                                                                                                                                                                                                                                                                     |                                         |
| Input Voltage                    | DC 5V                                                                                                                                                                                                                                                               |                                         |
| Communication                    |                                                                                                                                                                                                                                                                     |                                         |
| Communication Model              | LoRa                                                                                                                                                                                                                                                                |                                         |
| Communication Distance           | ≈200m(Barrier free)                                                                                                                                                                                                                                                 |                                         |
| Basic Parameters                 |                                                                                                                                                                                                                                                                     |                                         |
| Operating Temperature Range      | -40 to +60°C                                                                                                                                                                                                                                                        |                                         |
| Permissible Ambient Humidity     | 0-100%                                                                                                                                                                                                                                                              |                                         |
| Ingress Protection(IP) Rating    | IP20(After installation IP65)                                                                                                                                                                                                                                       |                                         |
| Allowable Altitude               | ≤4000                                                                                                                                                                                                                                                               |                                         |
| Product size (WxHxD)             | 137.8x31.3x31.3mm                                                                                                                                                                                                                                                   |                                         |
| Weight                           | 45.8g                                                                                                                                                                                                                                                               |                                         |
| Warranty                         | 5 Years                                                                                                                                                                                                                                                             |                                         |
| Standard                         | IEC/EN 62368-1                                                                                                                                                                                                                                                      |                                         |
| LoRa Parameters                  |                                                                                                                                                                                                                                                                     |                                         |
| Frequency Range                  | 863MHz-870MHz                                                                                                                                                                                                                                                       |                                         |
| Antenna                          | Built-in                                                                                                                                                                                                                                                            |                                         |
| Antenna Gain                     | 0.56dBi                                                                                                                                                                                                                                                             |                                         |



|       |                   |
|-------|-------------------|
| Model | SUN-SMART-CT02-WL |
|-------|-------------------|

|                                |                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------|
| Electrical parameters          |                                                                                 |
| Connection Type                | L1/N(Single phase) , L1/L2/L3/N(Three phase)                                    |
| CT (Rated Secondary Output)    | 50mA/5A                                                                         |
| Operation Voltage              | 85~300Va.c.(L-N)                                                                |
| Rated Frequency/Range          | 50Hz(45Hz-55Hz)/60Hz(55Hz-65Hz)                                                 |
| Self Consumption Power         | ≤2W                                                                             |
| AC voltage withstand           | 4KV/1min                                                                        |
| Accuracy                       |                                                                                 |
| Voltage                        | ±0.1V                                                                           |
| Current                        | ±0.01A                                                                          |
| Frequency                      | ±0.01Hz                                                                         |
| Power                          | ±1W                                                                             |
| Communication and Display      |                                                                                 |
| Communication Interface        | Wi-Fi&BT/LoRa/RS485                                                             |
| Lora Communication Distance    | ≈200m(Barrier free)                                                             |
| Display                        | LCD                                                                             |
| Display Data                   | Voltage、 Current、 Active power、 Reactive power、 Frequency、 Power Factor、 Energy |
| General Data                   |                                                                                 |
| Operation Temperature          | -40 to +60°C                                                                    |
| Operation Humidity             | 0-75%                                                                           |
| Ingress Protection (IP) Rating | IP20                                                                            |
| Altitude                       | ≤3000                                                                           |
| Mounting                       | DIN Rail Mounting                                                               |
| Size                           | 36x94x64mm                                                                      |
| Weight                         | 0.12kg                                                                          |
| Warranty                       | 5 Years                                                                         |
| Certification standards        | IEC/EN 61010-1                                                                  |
| Lora Data                      |                                                                                 |
| Frequency Range                | 863MHz-870MHz                                                                   |
| Antenna                        | Adhesive Mount Antenna / Suction Cup Antenna                                    |
| Antenna Gain                   | -2.81/2.00dBi                                                                   |
| WIFI Data                      |                                                                                 |
| Frequency Range                | 2412MHz-2484MHz                                                                 |
| Antenna                        | Adhesive Mount Antenna / Suction Cup Antenna                                    |
| Antenna Gain                   | 2.59/2.39dBi                                                                    |

# Energy Meter



| Model                      | SDM630-M                                | SDM230-M                 | DTSU666<br>5(80)A, 1.5(6)A<br>(Using 5(80)A Channel)                  | DDSU666<br>5(80)A                                    |
|----------------------------|-----------------------------------------|--------------------------|-----------------------------------------------------------------------|------------------------------------------------------|
| Electrical Characteristics |                                         |                          |                                                                       |                                                      |
| Voltage Range              | 100-277V AC (L-N)/<br>100-480V AC (L-L) | 100-277V AC (L-N)        | 184-264V AC (L-N)/<br>184-500V AC (L-L)                               | 176-264V (L-N)                                       |
| current range              | ≤100A                                   | ≤100A                    | ≤80A                                                                  | ≤80A                                                 |
| Power Consumption          | < 2W/10VA                               |                          |                                                                       |                                                      |
| Frequency                  | 50/60Hz                                 |                          |                                                                       |                                                      |
| Wiring                     | 1P2W/3P3W/3P4W                          | 1P2W                     | 3P3W/3P4W                                                             | 1P2W                                                 |
| PV String Input Data       |                                         |                          |                                                                       |                                                      |
| Operating Temperature      | -40°C to +70°C                          |                          |                                                                       |                                                      |
| Storage Temperature        | -40°C to +85°C                          |                          |                                                                       |                                                      |
| Operation Humidity         | ≤ 90%, non-condensing                   |                          | ≤ 75%, non-condensing                                                 |                                                      |
| Altitude                   | ≤ 2000m                                 |                          |                                                                       |                                                      |
| Accuracy                   |                                         |                          |                                                                       |                                                      |
| Active Energy              | Class 1                                 | Class 0.5/1 or Class C/B | Class 1 (error within ±1%)                                            | Class 1 (error within ±1%)                           |
| Voltage                    | ±0.5%                                   |                          |                                                                       |                                                      |
| Current                    | ±0.5%                                   |                          |                                                                       |                                                      |
| Active Power               | ±1%                                     |                          |                                                                       |                                                      |
| Communication              |                                         |                          |                                                                       |                                                      |
| Communication Type         | RS485 Modbus RTU                        |                          |                                                                       |                                                      |
| Baud Rate                  | 2400-38400 bps<br>(9600 bps default)    |                          | 1200/2400/4800/9600<br>/19200/115200 bps<br>(default value: 9600 bps) | 1200/2400/4800/9600 bps<br>(default value: 9600 bps) |
| Address Range              | 001 to 247                              |                          |                                                                       |                                                      |
| Parity Bit                 | none (default)/ odd / even              |                          |                                                                       |                                                      |
| Specification              |                                         |                          |                                                                       |                                                      |
| Dimension                  | 94.5mm×72mm×65mm                        | 36mm×100mm×63mm          | 72mm×101mm×80mm                                                       | 36mm×100mm×65.5mm                                    |
| Installation mode          | DIN 35mm rail mounted                   |                          |                                                                       |                                                      |

| Model                      | DTSU666<br>5(80)A, 1.5(6)A<br>(Using 1.5(6)A Channel)                 | DTSU666<br>100A/40mA                                 | DTSU666<br>250A/50mA        | DDSU666<br>100A/40mA                |
|----------------------------|-----------------------------------------------------------------------|------------------------------------------------------|-----------------------------|-------------------------------------|
| Electrical Characteristics |                                                                       |                                                      |                             |                                     |
| Voltage Range              | 184V~264V AC (L-N)/<br>184-500V AC (L-L)                              | 184V~264V AC (L-N)                                   | 184V~264V (L-N)             | 176V~264V (L-N)                     |
| Max.Primary current        | 9999A                                                                 | 100A                                                 | 250A                        | 100A                                |
| Secondary current          | 1A/5A CT                                                              | 40mA CT<br>(Fixed CT ratio)                          | 50mA CT<br>(Fixed CT ratio) | 40mA CT                             |
| Power Consumption          | < 2W/10VA                                                             |                                                      |                             |                                     |
| Frequency                  | 50/60Hz                                                               |                                                      |                             |                                     |
| Wiring                     | 3P3W/3P4W                                                             |                                                      |                             | 1P2W                                |
| Performance Criteria       |                                                                       |                                                      |                             |                                     |
| Operating Temperature      | -40°C to +70°C                                                        |                                                      |                             |                                     |
| Storage Temperature        | -40°C to +85°C                                                        |                                                      |                             |                                     |
| Operation Humidity         | ≤ 75%, non-condensing                                                 |                                                      |                             |                                     |
| Altitude                   | ≤ 2000m                                                               |                                                      |                             |                                     |
| Accuracy                   |                                                                       |                                                      |                             |                                     |
| Active Energy              | Class 1                                                               |                                                      |                             |                                     |
| Voltage                    | ±0.5%                                                                 |                                                      |                             |                                     |
| Current                    | ±0.5%                                                                 |                                                      |                             |                                     |
| Active Power               | ±1%                                                                   |                                                      |                             |                                     |
| Communication              |                                                                       |                                                      |                             |                                     |
| Communication Type         | RS485 Modbus RTU                                                      |                                                      |                             |                                     |
| Baud Rate                  | 1200/2400/4800/9600/<br>19200/115200 bps<br>(default value: 9600 bps) | 1200/2400/4800/9600 bps<br>(default value: 9600 bps) |                             |                                     |
| Address Range              | 001 to 247                                                            |                                                      |                             |                                     |
| Parity Bit                 | none (default)/ odd / even                                            |                                                      |                             |                                     |
| Specification              |                                                                       |                                                      |                             |                                     |
| Dimension                  | 72mm×101mm×80mm                                                       | 72mm×100mm×65.5mm                                    |                             | 40mA CT                             |
| Installation mode          | DIN 35mm rail mounted                                                 |                                                      |                             |                                     |
| Model                      | SDM630MCT ETL                                                         | SDM630MCT                                            | SDM630MCT-40mA              | SDM120CTM-40mA                      |
| Electrical Characteristics |                                                                       |                                                      |                             |                                     |
| Voltage Range              | 100-277V AC (L-N)/ 100-480V AC (L-L)                                  |                                                      |                             | 176~277V AC (L-N)                   |
| Max.Primary current        | 9999A                                                                 |                                                      |                             |                                     |
| Secondary current          | 1A/5A CT                                                              |                                                      | 40mA CT                     |                                     |
| Power Consumption          | < 2W/10VA                                                             |                                                      |                             |                                     |
| Frequency                  | 50/60Hz                                                               |                                                      |                             |                                     |
| Wiring                     | 1P2W/1P3W/3P3W/3P4W                                                   |                                                      | 1P2W/3P3W/3P4W              | 1P2W                                |
| Performance Criteria       |                                                                       |                                                      |                             |                                     |
| Operating Temperature      | 40°C to +70°C                                                         |                                                      |                             |                                     |
| Storage Temperature        | -40°C to +85°C                                                        |                                                      |                             |                                     |
| Operation Humidity         | ≤ 90%, non-condensing                                                 |                                                      |                             |                                     |
| Altitude                   | ≤ 2000m                                                               |                                                      |                             |                                     |
| Accuracy                   |                                                                       |                                                      |                             |                                     |
| Active Energy              | Class 1                                                               | Class 0.5S/1 or Class C/B                            | Class 1                     | Class 1                             |
| Voltage                    | ±0.5%                                                                 |                                                      |                             |                                     |
| Current                    | ±0.5%                                                                 |                                                      |                             |                                     |
| Active Power               | ±1%                                                                   |                                                      |                             |                                     |
| Communication              |                                                                       |                                                      |                             |                                     |
| Communication Type         | RS485 Modbus RTU                                                      |                                                      |                             |                                     |
| Baud Rate                  | 2400-38400 bps<br>(9600 bps default)                                  |                                                      |                             | 1200~9600 bps<br>(2400 bps default) |
| Address Range              | 001 to 247                                                            |                                                      |                             |                                     |
| Parity Bit                 | none (default)/ odd / even                                            |                                                      |                             |                                     |
| Specification              |                                                                       |                                                      |                             |                                     |
| Dimension                  | 72mm×94.5mm×65mm                                                      |                                                      |                             | 17.5mm×119mm×62mm                   |
| Installation mode          | DIN 35mm rail mounted                                                 |                                                      |                             |                                     |

# Stick Logger

LSW-6-A525530 LSW-5A5253  
LSW-3A5251-C LSE-4WA5252



### Smart Fault Management

- Fast fault diagnosis & troubleshooting
- Customizable fault alerts via SMS and email



### Intelligent O&M

- Real-time data monitoring
- Remote firmware upgrade



### Flexible Setup & Compatibility

- Compatible with most mainstream inverters
  - Plug & Play for effortless setup



### Comprehensive Protection

- IP65/IP66-rated for reliable outdoor operation
- Independent module design protects internal components

| Model                          | LSW-6-A525530                                 | LSW-5A5253                                      | LSW-3A5251-C                                                   | LSE-4WA5252                                                   |
|--------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| Remote Communication Interface | Wi-Fi                                         | Wi-Fi                                           | Wi-Fi                                                          | Enternet+ Wi-Fi                                               |
| Working Frequency              | 2.400 GHz ~ 2.4835GHz                         | 2.412GHz~2.472GHz                               | 2.412GHz~2.472GHz                                              | 2.412GHz-2.472GHz                                             |
| Satellite Positioning          | /                                             | /                                               | /                                                              | /                                                             |
| Antenna                        | /                                             | Integrated PCB antenna                          | External Wi-Fi stick antenna                                   | /                                                             |
| Data Interface                 | RS232                                         | RS232                                           | RS232                                                          | RS232                                                         |
| Working Voltage                | DC5V-12V(±5%)                                 | DC5V ~DC12V                                     | DC5V-DC12V                                                     | DC 5-12V                                                      |
| Working Power                  | 2W                                            | 1.5W                                            | 1.5W                                                           | 1.5W                                                          |
| SIM Card                       | /                                             | /                                               | /                                                              | /                                                             |
| Memory                         | 8MB FLASH                                     | Default configuration: 8 MB of FLASH            | 2M                                                             | Default configuration: 4 MB of flash memory                   |
| Working Temperature            | -30 to +70°C                                  |                                                 |                                                                |                                                               |
| Working Humidity               | 10%~90% relative humidity, non-condensing     |                                                 |                                                                |                                                               |
| No.of Connections              | One                                           |                                                 |                                                                |                                                               |
| Serial Communication Rate      | 9600 bps (adjustable from 1200 to 115200 bps) | 9600 bp                                         | Default setting: 9600 bps (Adjustable from 1200 to 115200 bps) | Default setting: 9600 bps (Adjustable from 1200 to 57600 bps) |
| Data Acquisition Interval      | Default setting: 5 minutes                    |                                                 |                                                                |                                                               |
| User Configuration             | App Configuration                             | AT+ command set<br>Local web page configuration | AT+ command set<br>Local web page configuration                | AT+ command set<br>Local web page configuration               |
|                                | Remote server                                 | Remote server<br>Bluetooth                      | Remote server                                                  | Remote server<br>Bluetooth                                    |
| Firmware Upgrade               | Local upgrade<br>Remote upgrade               | Local web page update<br>Remote update          | Local web page update<br>Remote update                         | Local web page update<br>Remote update                        |
| Others                         | Real-time Control                             | Real-time control, breakpoint resume            | Real-time Control<br>Data resuming                             | Real-time control, breakpoint resume                          |

Stick logger supports GPRS, WIFI, 4G, Ethernet and other communication modes. Its bluetooth function enables local debugging configuration to collect operation and power generation data from inverters.

It pairs with Deye Cloud professional platform to enable remote PV system monitoring and to realize distributed power station management with lower cost and higher efficiency.

# Deye Data Logger

DL1000B-WIFI/4G/ETH



## Easy-to-install

- Plug and play for effortless setup



## Stable Data Acquisition

- Offline data auto backfill
- 1-minute data refresh interval



## Flexible O&M

- Supports local & remote OTA
- Supports remote monitoring & operation
- Communication status diagnostics

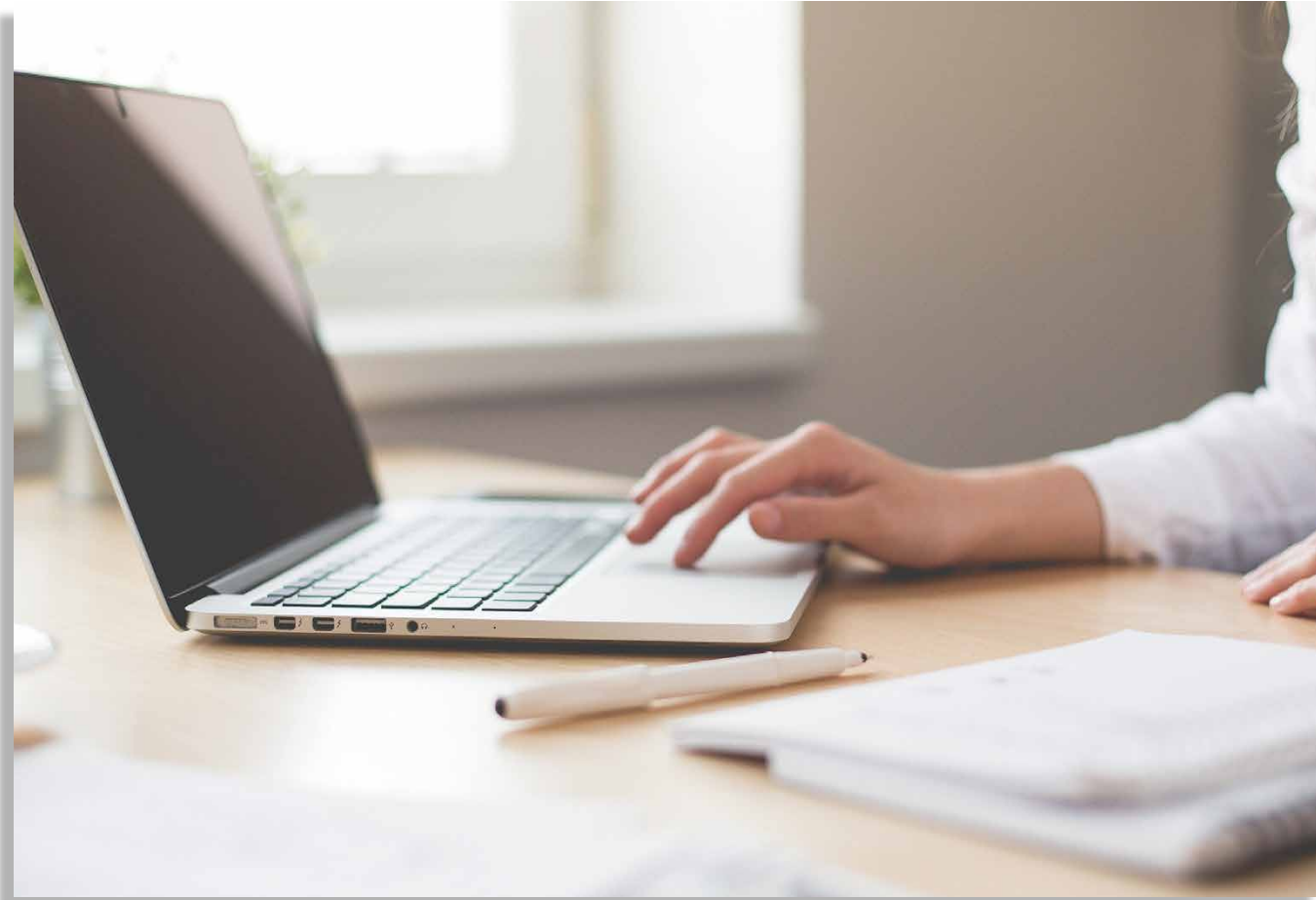


## Reliable & Secure Connectivity

- High-reliability wireless design
- Encrypted data transmission
- Supports app local mode via Bluetooth

| Model                      | DL1000B-WIFI                                                                                         | DL1000B-4G                             | DL1000B-ETH                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WIFI</b>                |                                                                                                      |                                        |                                                                                                                                                                                        |
| Operating frequency range  | 2400~2483.5MHz                                                                                       | /                                      | 2400~2483.5MHz                                                                                                                                                                         |
| TX power                   | 802.11b:+14dBm~+18dBm(@11Mbps)<br>802.11g:+13dBm~+16dBm(@54Mbps)<br>802.11n:+11dBm±14dBm(@HT20,MCS7) | /                                      | 19.5dBm@11b, 1Mbps<br>19.5dBm@11b, 11Mbps<br>18dBm@11g, 6Mbps<br>14dBm@11g, 54Mbps<br>18dBm@11n, HT20, MCS0<br>13dBm@11n, HT20, MCS7<br>18dBm@11n, HT40, MCS0<br>13dBm@11n, HT40, MCS7 |
| Antenna                    | Onboard antenna                                                                                      | /                                      | /                                                                                                                                                                                      |
| Communication protocol     | /                                                                                                    | /                                      | IEEE 802.11b/g/n                                                                                                                                                                       |
| <b>4G</b>                  |                                                                                                      |                                        |                                                                                                                                                                                        |
| AERA                       | /                                                                                                    | EMEA                                   | /                                                                                                                                                                                      |
| LTE-FDD                    | /                                                                                                    | B1/3/5/7/8/20/28                       | /                                                                                                                                                                                      |
| LTE-TDD                    | /                                                                                                    | B38/40/41                              | /                                                                                                                                                                                      |
| GSM                        | /                                                                                                    | B2/3/5/8                               | /                                                                                                                                                                                      |
| Antenna                    | /                                                                                                    | Build-in Antenna                       | /                                                                                                                                                                                      |
| <b>ETH</b>                 |                                                                                                      |                                        |                                                                                                                                                                                        |
| Speed                      | /                                                                                                    | /                                      | 10M/100M                                                                                                                                                                               |
| Max. communication range   | /                                                                                                    | /                                      | 100M (Direct connection )                                                                                                                                                              |
| <b>BLE</b>                 |                                                                                                      |                                        |                                                                                                                                                                                        |
| Protocols                  | BLE 5.3                                                                                              | BLE 4.2                                | BLE 4.2                                                                                                                                                                                |
| Operating frequency range  | 2400~2500MHz                                                                                         | /                                      | /                                                                                                                                                                                      |
| TX power                   | MAX: 18dBm                                                                                           | MAX: 18dBm                             | MAX: 9dBm                                                                                                                                                                              |
| <b>Hardware</b>            |                                                                                                      |                                        |                                                                                                                                                                                        |
| Data Interface             | USB                                                                                                  | USB                                    | USB                                                                                                                                                                                    |
| Power supply voltage       | DC 5V                                                                                                | DC 5V                                  | DC 5V                                                                                                                                                                                  |
| Power dissipation          | 1.5W                                                                                                 | 3.5W                                   | 1.5W                                                                                                                                                                                   |
| LED                        | NET LED                                                                                              | NET LED                                | NET LED                                                                                                                                                                                |
|                            | COM LED                                                                                              | COM LED                                | COM LED                                                                                                                                                                                |
| SIM                        | /                                                                                                    | Nano SIM                               | /                                                                                                                                                                                      |
| Operating temperature      | -40 to +65℃                                                                                          | -30 to +70℃                            | -40 to +65℃                                                                                                                                                                            |
| Operating humidity         | 10%-90% (No Condensing)                                                                              | -10%-90% (No Condensing)               | -10%-90% (No Condensing)                                                                                                                                                               |
| Storage temperature range  | -45 to +90℃                                                                                          | -40 to +85℃                            | -40 to +85℃                                                                                                                                                                            |
| Storage humidity           | <40%                                                                                                 | <40%                                   | <40%                                                                                                                                                                                   |
| Ingress Protection         | IP65                                                                                                 | IP65                                   | IP65                                                                                                                                                                                   |
| Dimension (W×D×H)          | 116.6mm×70.5mm×30.5mm                                                                                | 116.6mm×70.5mm×30.5mm                  | 116.6mm×70.5mm×30.5mm                                                                                                                                                                  |
| <b>Software</b>            |                                                                                                      |                                        |                                                                                                                                                                                        |
| Serial communication speed | Default :9600bps                                                                                     | Default :9600bps                       | Default :9600bps                                                                                                                                                                       |
| Data collection interval   | Default :1 minute (1-30 mins Optional)                                                               | Default :1 minute (1-15 mins Optional) | Default :1 minute (1-30 mins Optional)                                                                                                                                                 |
| User Configuration         | AT Command                                                                                           | AT Command                             | AT Command                                                                                                                                                                             |
|                            | Local web page configuration                                                                         | Remote Server                          | Remote Server                                                                                                                                                                          |
|                            | Remote Server                                                                                        |                                        |                                                                                                                                                                                        |
| OTA                        | Local OTA                                                                                            | Remote OTA                             | Remote OTA                                                                                                                                                                             |
|                            | Remote OTA                                                                                           |                                        |                                                                                                                                                                                        |
| Others                     | Real-Time control, Data backfilling                                                                  | Real-Time control, Data backfilling    | Real-Time control, Data backfilling                                                                                                                                                    |

# Deye Cloud

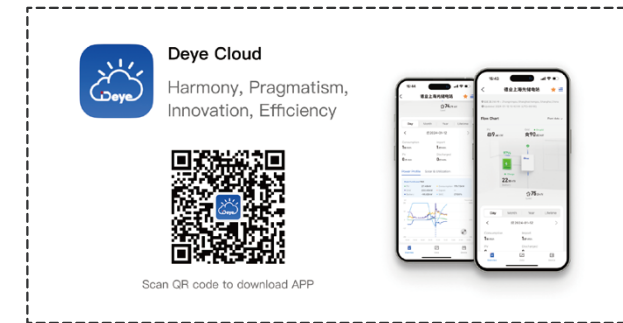


Support the establishment, data collection, monitoring, operation, maintenance, and after-sales services for new energy power stations like photovoltaic, energy storage, and micro-inverters.

The Deye Smart Cloud Big Data platform enables transparent management of all power station types, enhancing their value.

It offers a variety of power station and equipment types, comprehensive monitoring, efficient troubleshooting, intelligent data analysis, energy flow visualization, and diverse management modes.

Additionally, our new data center feature allows collaboration with merchants for shared operation and maintenance, ensuring power station security and stability.



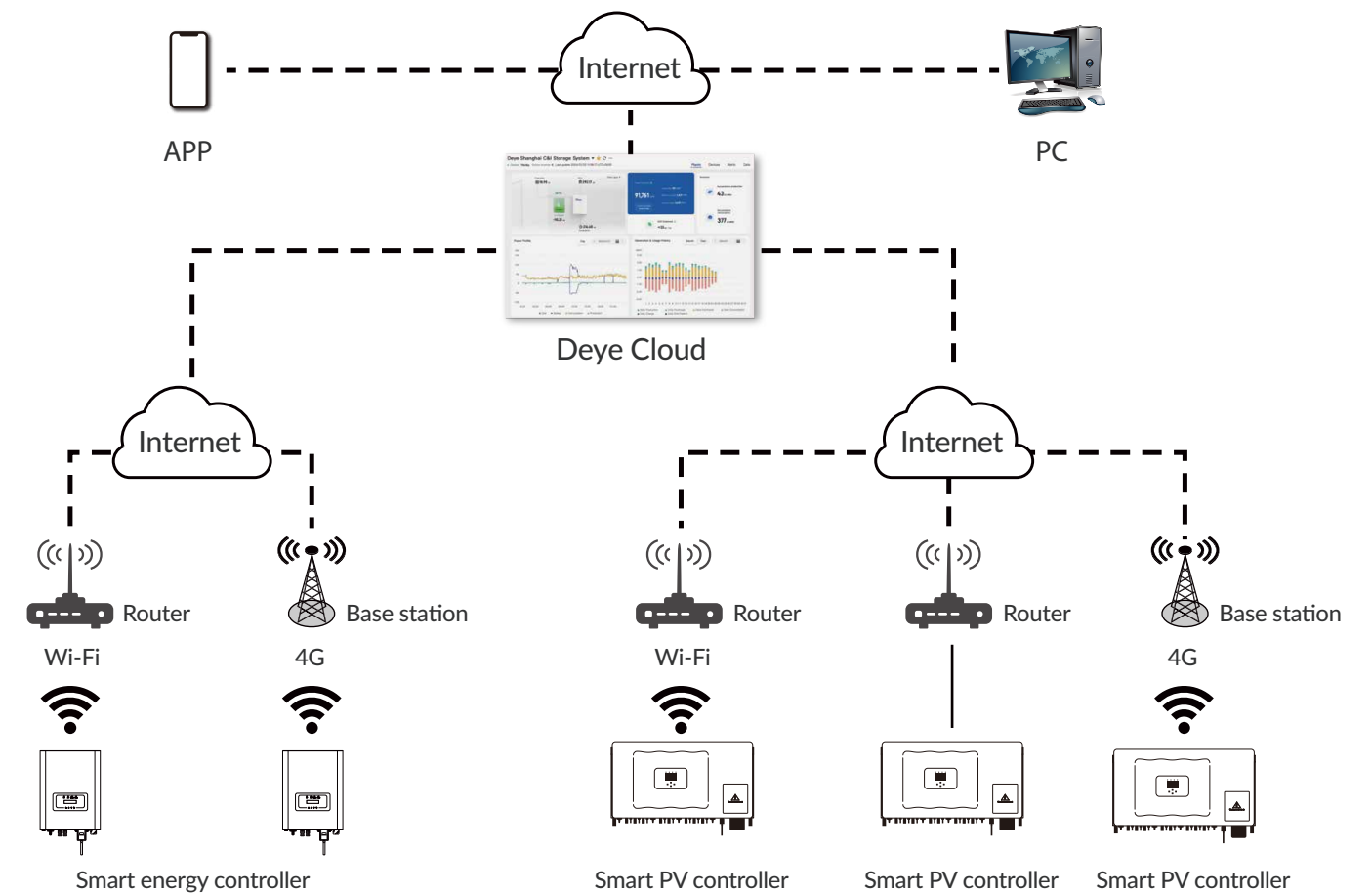
## All in one

- Supports multiple devices such as photovoltaic, batteries, wind turbines, power grids, micro-inverters, diesel generators, loads, UPS, and Smartload in all aspects;
- Supports both business users and owners in one APP.



## Security

- Separate data centers in Europe and America;
- Comply with ETSI/EN 303645, GDPR.



# PROJECT CASES



**Indonesia ▶**  
Inverter: SUN-12K-SG  
Capacity: 12kW/20kWh



**China ▶**  
Inverter: SUN-110K-G  
Capacity: 220kW



**Brazil ▶**  
Inverter: SUN-25K-G  
Capacity: 50kW



**Brazil ▶**  
Inverter: SUN-80K-G  
Capacity: 320kW



**Australia ▶**  
Inverter: SUN-5K-G  
Capacity: 5kW



**China ▶**  
Inverter: SUN-110K-G  
Capacity: 660kW



**Australia ▶**  
Inverter: SUN-8K-SG05LP1-AU  
Battery: AI-W5.1-B-ESS  
Capacity: 16kW/ 30kWh



**South Africa ▶**  
Inverter: SUN-50K-SG  
Battery: BOS-G  
Capacity: 50kW/55kWh

# PROJECT CASES



**Zimbabwe** ▶  
Inverter: SUN-50K-SG01HP3  
Battery: BOS-G/BOS-G Pro  
Capacity: 500kW/500kWh



**Italy** ▶  
Inverter: SUN-6K-SG  
Capacity: 6kW



**Philippines** ▶  
Inverter: SUN-12K-SG  
Capacity: 120kW



**India** ▶  
Inverter: SUN-50K-SG  
Capacity: 50kW



**Zimbabwe** ▶  
Inverter: SUN-80K-SG02HP3  
Battery: BOS-G/BOS-G Pro  
Capacity: 480kW/660kWh



**Myanmar** ▶  
Inverter: SUN-12K-SG  
Capacity: 12kW



**South Africa** ▶  
Model: 125kW PCS\*4 + MPPT\*4 + 500kW STS\*1  
Battery: BOS-B\*4  
Capacity: 500kW/860kWh



**China** ▶  
Inverter: SUN-50K-SG01HP3-EU  
Battery: BOS-G  
Capacity: 50kW/100kWh