

# Hybrid Inverter

• SUN-4.95/5.5/8K-SG02HP2-JP-FM4



## S-JET certification

- Equipped with stand-alone operation and grid-connected operation functions
- Supports 101V/202V loads
- Anti-reverse power flow function measures
- Supports single-function and full-load operation

## Datasheet

型式	SUN-4.95K-SG02 HP2-JP-FM4	SUN-5.5K-SG02 HP2-JP-FM4	SUN-8K-SG02 HP2-JP-FM4
<b>Battery Input Data</b>			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	80-500		
Max. Charging Current (A)	50		
Max. Discharging Current (A)	50		
Battery Charging Method	Self-adaptation to BMS		
Number of Battery Inputs	1		
<b>PV Input Data</b>			
Max. DC Allowable Connected Power (W)	10000	11000	16000
Max. DC Input Power (W)	8000	8800	12600
Max. DC Input Voltage (V)	500		
Start-up Voltage (V)	70		
MPPT Voltage Range (V)	50-450		
Rated DC Input Voltage (V)	350		
Full Load MPPT Voltage Range (V)	250-450		
Max. Input Short Circuit Current (A)	30+30+30+30		
PV Input Current (A)	20+20+20+20		
Number of MPPT Circuits	4/1+1+1+1		
Number of Strings per MPPT	4/1+1+1+1		
<b>AC Output Data</b>			
Rated AC Output Active Power (W)	4950	5500	8000
Max. AC Output Apparent Power (VA)	5440	6050	8800
Rated AC Output Current (A)	24.6	27.3	39.7
Max. AC Output Current (A)	27	30	43.6
Max. Continuous AC Bus Pass-Through Current (Grid to Load) (A)	80		
Peak Power (Off-Grid) (W)	1.5 times of rated power, 10s		
Power Factor Adjustment Range	0.8 leading - 0.8 lagging		
Rated Output Voltage / Range (V)	101/202V 0.85Un-1.1Un		
Rated Frequency / Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz		
Electrical System	Single-phase three-wire (supports 101V and 202V)		
Current Harmonic Distortion (THDi)	<3%		
Grid DC Component	<0.5% In		
<b>Protection Functions</b>			
Integrated	Integrated DC reverse polarity protection, AC output overcurrent protection, overheat protection, AC output overvoltage protection, AC output short circuit protection, DC component detection, overvoltage load reduction protection, ground fault current detection, arc fault circuit interrupter (optional), power system monitoring and control, islanding detection, ground fault detection, DC input switch, DC terminal insulation resistance detection, residual current (RCD) detection, surge protection		
<b>General Data</b>			
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating		
Allowable Humidity	0~100% (no condensation, no icing)		
Altitude	3000m		
Noise (dB)	≤50		
Dust and Water Protection Rating	IP 65		
Inverter Topology	Non-isolated		
Overvoltage Category	OVC II(DC), OVC II(AC)		
Surge Protection Level	TYPE III		
Dimensions (W×H×D) [mm]	423 * 570 * 256.5 (excluding connectors and bracket)		
Weight (kg)	32		
Warranty Period	Standard warranty 10 years, extended warranty available		
Cooling Method	Natural air cooling		
Certification	S-JET certification		