



S Series Single Phase Solar GTI

1.0KW/1.5KW/2.2KW/3.0KW/3.6KW
4.4KW/5.0KW/6.0KW/8.0KW/10.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

comply with international quality standards
tested by TUV,BV,Dekra etc.



Great reliability

IP65 ingress protection
10+years R&D accumulation and support

ANYTIME, ANYWHERE REMOTE MONITORING PLATFORM

Monitor system performance in
real-time via smartphone app or
web portal using our advanced
monitoring platform .

SOLAR GRID TIED INVERTER

Technology Data

Model No	S1000TL	S1500TL	S2200TL	S3000TL	S3600TL	S4400TL	S5000TL	S6000TL
DC Side / Input Parameters								
Max DC power (W)	1500W	2250W	3300W	4500W	5400W	6600W	7500W	7500W
Max DC voltage (Vdc)	450	450	500	500	500	500	500	500
Min System start/Shut down voltage (Vdc)	65/70	75/100	75/100	75/100	75/100	75/100	75/100	75/100
MPPT voltage range(Vdc)	70~450	100~450	100~450	100~450	100~450	100~450	100~450	100~450
Max. input current (A)		13A				13A/13A		
Max.input short circuit per MPPT		17A				17A/17A		
Number of MPP trackers		1						2
Strings per MPP tracker		1						1
AC Side / Output Parameters								
Nominal output power (W)	1000	1500	2200	3000	3600	4000	5000	6000
Maximum output power (W)	1100	1650	2420	3300	3960	4400	5500	6600
Nominal output voltage/range (V)	208,220,230,240/180~270							
AC grid frequency/range (Hz)	50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz							
Maximum output current (A)	6	8	12	16	16	21	23	26
AC connection (with PE)	Single phase							
Current distortion(THDi)	<1.5%	<1.5%	<1.5%	<1.5%	<2.5%	<2.5%	<2.5%	<2.5%
Power factor	~1%(Adjustable from 0.8 leading to 0.8 lagging)							
Efficiency								
Maximum conversion efficiency	97.3%	97.3%	97.4%	97.5%	97.8%	97.8%	97.5%	97.6%
European efficiency	97.0%	97.0%	97.1%	97.2%	97.3%	97.3%	97.2%	97.3%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection								
DC reverse-polarity protection	yes							
Anti-islanding / Overvoltage protection	yes							
Short circuit protection	yes							
Leakage current protection	yes							
Grid monitoring / Ground fault monitoring	yes							
DC/AC side SPD(thermally protected)	yes							
General Parameters								
Dimension (L/W/H)(mm)	370/277/115				434/340/115			
Weight (kg)	7				8			
Embedded DC Switch	Optional							
Night power consumption (W)	< 0.2							
Isolation type	Transformerless							
Protection degree	IP65 according to IEC60529							
Operation temperature (°C)	-25 ~ +60							
Cooling concept	Smart Cooling							
Operatiing Altitude (m)	<2000m without power derating							
Acoustic noise level (dB)	< 25							
Display	Graphic LCD							
Communication Interface	Standard WIFI; RS485 (optional)							
Warranty	Standard 5 years; 7/10 years optional							
Certificates and Approvals								
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2								

SOLAR GRID TIED INVERTER

Technology Data

Model No	S6000TL(Pro)	S8000TL	S10000TL
DC Side / Input Parameters			
Max DC power (W)	9000W	12000W	15000W
Max DC voltage (Vdc)		550Vd.c.	
Min System start/Shut down voltage (Vdc)		75/100	
MPPT voltage range(Vdc)		100~500Vd.c.	
Max. input current (A)		28A/18A	
Max. input short current per MPPT (A)		40A/25A	
Number of MPPT trackers		2	
Strings per MPP tracker		2/1	
AC Side / Output Parameters			
Nominal output power (W)	6000	8000	10000
Maximum output power (W)	6600	8800	10500
Nominal output voltage/range (V)		208,220,230,240/140~310	
AC grid frequency/range (Hz)		50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz	
Maximum output current (A)	28	38.5	47.7
AC connection (with PE)		Single phase	
Current distortion(THDi)		<2.5%	
Power factor		~1%(Adjustable from 0.8 leading to 0.8 lagging)	
Efficiency			
Maximum conversion efficiency		98.1%	
European efficiency		97.5%	
MPPT efficiency		99.9%	
Safety and Protection			
DC reverse-polarity protection		yes	
Anti-islanding / Overvoltage protection		yes	
Short circuit protection		yes	
Leakage current protection		yes	
Grid monitoring / Ground fault monitoring		yes	
DC/AC side SPD(thermally protected)		yes	
General Parameters			
Dimension (L/W/H)(mm)		468/374/127	
Weight (kg)		11	
Embedded DC Switch		Optional	
Night power consumption (W)		< 0.2	
Isolation type		Transformerless	
Protection degree		IP65 according to IEC60529	
Operation temperature (°C)		-25 ~ +60	
Cooling concept		Smart Cooling	
Operating Altitude (m)		<2000m without power derating	
Acoustic noise level (dB)		< 25	
Display		Graphic LCD	
Communication Interface		Standard WIFI; RS485 (optional)	
Warranty		Standard 5 years; 7/10 years optional	
Certificates and Approvals			
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2			



S Series (Plus) Single Phase Solar GTI

1.0KW/2.2KW/3.0KW/3.6KW/4.4KW
5.0KW/6.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
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SOLAR GRID TIED INVERTER

Technology Data

Model No	S1000TL	S2200TL	S3000TL	S3600TL	S4400TL	S5000TL	S6000TL
DC Side / Input Parameters							
Max DC power (W)	1500W	3300W	4500W	5400W	6600W	7500W	7500W
Max DC voltage (Vdc)	550	550	550	550	550	550	550
Min System start/Shut down voltage (Vdc)	65/70	75/100	75/100	75/100	75/100	75/100	75/100
MPPT voltage range(Vdc)	70~450	100~450	100~450	100~450	100~500	100~500	100~500
Max. input current (A)				18A			22A
Max.input short circuit per MPPT				25A			30A
Number of MPP trackers				1			
Strings per MPP tracker				1			
AC Side / Output Parameters							
Nominal output power (W)	1000	2200	3000	3600	4000	5000	6000
Maximum output power (W)	1000	2420	3300	3960	4400	5500	6600
Nominal output voltage/range (V)	208,220,230,240/180~270						
AC grid frequency/range (Hz)	50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz						
Maximum output current (A)	6	12	16	18	21	23	28
AC connection (with PE)	Single phase						
Current distortion(THDi)	<1.5%	<1.5%	<1.5%	<2.5%	<2.5%	<2.5%	<2.5%
Power factor	~1%(Adjustable from 0.8 leading to 0.8 lagging)						
Efficiency							
Maximum conversion efficiency	97.3%	97.4%	97.5%	97.8%	97.8%	97.5%	97.6%
European efficiency	97.0%	97.1%	97.2%	97.3%	97.3%	97.2%	97.3%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection							
AFCI				yes			
DC reverse-polarity protection				yes			
Anti-islanding / Overvoltage protection				yes			
Short circuit protection				yes			
Leakage current protection				yes			
Grid monitoring / Ground fault monitoring				yes			
DC/AC side SPD(thermally protected)				yes			
General Parameters							
Dimension (L/W/H)(mm)				300/294/104			370/318.5/105.5
Weight (kg)				5			7
Embedded DC Switch				Optional			
Night power consumption (W)				< 0.2			
Isolation type				Transformerless			
Protection degree				IP65 according to IEC60529			
Operation temperature (°C)				-25 ~ +60			
Cooling concept				Smart Cooling			
Operatiing Altitude (m)				<2000m without power derating			
Acoustic noise level (dB)				< 25			
Display				Graphic LCD			
Communication Interface				Standard WIFI; RS485 (optional)			
Warranty				Standard 5 years; 7/10 years optional			
Certificates and Approvals							
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2							



S Series (ultra) Single Phase Solar GTI

1.0KW/2.2KW/3.0KW/3.6KW/4.4KW
5.0KW/6.0KW



Big LCD display



Power export limit



Die casting premium design



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

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SOLAR GRID TIED INVERTER

Technology Data

Model No	S1000TL	S2200TL	S3000TL	S3600TL	S4400TL
DC Side / Input Parameters					
Max DC power (W)	1500W	3300W	4500W	5400W	6600W
Max DC voltage (Vdc)	550	550	550	550	550
Min System start/Shut down voltage (Vdc)	65/70	75/100	75/100	75/100	75/100
MPPT voltage range(Vdc)	70~450	100~450	100~450	100~450	100~500
Max. input current (A)			18A		
Max.input short circuit per MPPT			25A		
Number of MPP trackers			1		
Strings per MPP tracker			1		
AC Side / Output Parameters					
Nominal output power (W)	1000	2200	3000	3600	4000
Maximum output power (W)	1000	2420	3300	3960	4400
Nominal output voltage/range (V)		208,220,230,240/180~270			
AC grid frequency/range (Hz)		50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz			
Maximum output current (A)	6	12	16	18	21
AC connection (with PE)		Single phase			
Current distortion(THDi)	<1.5%	<1.5%	<1.5%	<2.5%	<2.5%
Power factor		~1%(Adjustable from 0.8 leading to 0.8 lagging)			
Efficiency					
Maximum conversion efficiency	97.3%	97.4%	97.5%	97.8%	97.8%
European efficiency	97.0%	97.1%	97.2%	97.3%	97.3%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection					
AFCI			yes		
DC reverse-polarity protection			yes		
Anti-islanding / Overvoltage protection			yes		
Short circuit protection			yes		
Leakage current protection			yes		
Grid monitoring / Ground fault monitoring			yes		
DC/AC side SPD(thermally protected)			yes		
General Parameters					
Dimension (L/W/H)(mm)			315/300/108		
Weight (kg)			5		
Embedded DC Switch			Optional		
Night power consumption (W)			< 0.2		
Isolation type			Transformerless		
Protection degree			IP65 according to IEC60529		
Operation temperature (°C)			-25 ~ +60		
Cooling concept			Smart Cooling		
Operatiing Altitude (m)			<2000m without power derating		
Acoustic noise level (dB)			< 25		
Display			Graphic LCD		
Communication Interface			Standard WIFI; RS485 (optional)		
Warranty			Standard 5 years; 7/10 years optional		
Certificates and Approvals					
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2					

SOLAR GRID TIED INVERTER

Technology Data

Model No	S4400TL	S5000TL	S6000TL
DC Side / Input Parameters			
Max DC power (W)	6600W	7500W	7500W
Max DC voltage (Vdc)	550	550	550
Min System start/Shut down voltage (Vdc)	75/100	75/100	75/100
MPPT voltage range(Vdc)	100~500	100~500	100~500
Max. input current (A)		30A	
Max.input short circuit per MPPT		40A	
Number of MPP trackers		1	
Strings per MPP tracker		1	
AC Side / Output Parameters			
Nominal output power (W)	4000	5000	6000
Maximum output power (W)	4400	5500	6600
Nominal output voltage/range (V)		208,220,230,240/180~270	
AC grid frequency/range (Hz)	50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz		
Maximum output current (A)	21	23	28
AC connection (with PE)	Single phase		
Current distortion(THDi)	<2.5%	<2.5%	<2.5%
Power factor	~1%(Adjustable from 0.8 leading to 0.8 lagging)		
Efficiency			
Maximum conversion efficiency	97.8%	97.5%	97.6%
European efficiency	97.3%	97.2%	97.3%
MPPT efficiency	99.9%	99.9%	99.9%
Safety and Protection			
AFCI		yes	
DC reverse-polarity protection		yes	
Anti-islanding / Overvoltage protection		yes	
Short circuit protection		yes	
Leakage current protection		yes	
Grid monitoring / Ground fault monitoring		yes	
DC/AC side SPD(thermally protected)		yes	
General Parameters			
Dimension (L/W/H)(mm)		380/305/118	
Weight (kg)		8	
Embedded DC Switch		Optional	
Night power consumption (W)		< 0.2	
Isolation type		Transformerless	
Protection degree		IP65 according to IEC60529	
Operation temperature (°C)		-25 ~ +60	
Cooling concept		Smart Cooling	
Operatiing Altitude (m)		<2000m without power derating	
Acoustic noise level (dB)		< 25	
Display		Graphic LCD	
Communication Interface		Standard WIFI; RS485 (optional)	
Warranty		Standard 5 years; 7/10 years optional	
Certificates and Approvals			
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2			



TP Series Three Phase Solar GTI

4.0KW/5.0KW/6.0KW/8.0KW/10.0KW/12.0KW/15.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

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Great reliability

IP65 ingress protection
10+years R&D accumulation and support

ANYTIME, ANYWHERE

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THREE PHASE SOLAR GRID TIED INVERTER

Technology Data

Model No	TP4KTL	TP5KTL	TP6KTL	TP8KTL	TP10KTL	TP12KTL	TP15KTL
Input (DC)							
Max DC power (W)	5500W	6500W	7500W	9500W	11500W	18000W	22500W
Max DC voltage (Vdc)				1000Vd.c.			
Min working voltage (Vdc)				160Vd.c.			
MPPT voltage range (Vdc)				160...850Vd.c.			
Max input current / per string (A)				18A/18A			
Max.input short circuit per MPPT				25A/25A			
Number of MPP trackers				2			
Strings per MPP tracker				1			
Output (AC)							
AC nominal power (W)	4000	5000	6000	8000	10000	12000	15000
Max AC apparent power (VA)	5000	6000	7000	8800	11000	13200	16500
Max output current (A)	8	10	12	15	17	20	23
Nominal AC output				50/60 Hz; 400 Vac			
AC output range				45/55 Hz ; 280 ~ 490 Vac (Adj)			
Power factor				0.8leading...0.8laging			
Harmonics				< 5%			
Grid type				3 W/N/PE			
Efficiency							
Max efficiency	98.0%	98.2%	98.2%	98.3%	98.4%	98.4%	98.4%
Euro efficiency	97.5%	97.7%	97.7%	97.8%	97.9%	97.9%	98.0%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection							
DC reverse-polarity protection				yes			
DC breaker				yes			
DC/AC SPD				yes			
Leakage current protection				yes			
Insulation Impedance Detection				yes			
Residual Current protection				yes			
General Parameters							
Dimension (W/H/D)(mm)				480*476*157			
Weight (kg)				16			
Operating temperature range °C				-25 ~ +60			
Degree of protection				IP65			
Cooling concept				Smart Cooling			
Topology				Transformerless			
Display				LCD			
Humidity				0-95%, no condensation			
Communication				RS485/WiFi/GPRS			
Warranty				Standard 5 years; 7/10 years optional			
Certificates and Approvals							
CQC, VDE-AR-N4105, VDE0126-1-1, AS4777, IEC61727, IEC62116							



TP Series (Pro) Three Phase Solar GTI

TP5KTL Pro/TP6KTL Pro/TP8KTL Pro
TP 10KTL Pro/TP 12KTL Pro/TP 15KTL Pro



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
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Built-in limiter optional



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THREE PHASE SOLAR GRID TIED INVERTER

Technology Data

Model No	TP5KTL Pro	TP6KTL Pro	TP8KTL Pro	TP10KTL Pro	TP12KTL Pro	TP15KTL Pro
Input (DC)						
Max DC power (W)	6500W	7500W	9500W	11500W	18000W	22500W
Max DC voltage (Vdc)	1000Vd.c.					
Min working voltage (Vdc)	160Vd.c.					
MPPT voltage range (Vdc)	160...850Vd.c.					
Max input current / per string (A)	36A					
Max.input short circuit per MPPT	48A					
Number of MPP trackers	1					
Strings per MPP tracker	2					
Output (AC)						
AC nominal power (W)	5000	6000	8000	10000	12000	15000
Max AC apparent power (VA)	6000	7000	8800	11000	13200	16500
Max output current (A)	10	12	15	17	20	23
Nominal AC output	50/60 Hz; 400 Vac					
AC output range	45/55 Hz ; 280 ~ 490 Vac (Adj)					
Power factor	0.8leading...0.8lagging					
Harmonics	< 5%					
Grid type	3 W/N/PE					
Efficiency						
Max efficiency	98.2%	98.2%	98.3%	98.4%	98.4%	98.4%
Euro efficiency	97.7%	97.7%	97.8%	97.9%	97.9%	98.0%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection						
DC reverse-polarity protection	yes					
DC breaker	yes					
DC/AC SPD	yes					
Leakage current protection	yes					
Insulation Impedance Detection	yes					
Residual Current protection	yes					
General Parameters						
Dimension (W/H/D)(mm)	420*370*130					
Weight (kg)	16					
Operating temperature range °C	-25 ~ +60					
Degree of protection	IP65					
Cooling concept	Smart Cooling					
Topology	Transformerless					
Display	LCD					
Humidity	0-95%, no condensation					
Communication	RS485/WiFi/GPRS					
Warranty	Standard 5 years; 7/10 years optional					
Certificates and Approvals						
CQC, VDE-AR-N4105, VDE0126-1-1, AS4777, IEC61727, IEC62116						



TP Series Three Phase Solar GTI

17.0KW/20.0KW/25.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



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THREE PHASE SOLAR GRID TIED INVERTER

Technology Data

Model No	TP17KTL	TP20KTL	TP25KTL
Input (DC)			
Max DC power (W)	25500W	30000W	30000W
Max DC voltage (Vdc)		1000Vd.c.	
Min working voltage (Vdc)		250Vd.c.	
MPPT voltage range (Vdc)		200...850Vd.c.	
Max input current / per string (A)	26A/26A		36A/26A
Max.input short circuit MPPT	34A/34A		46A/34A
Number of MPP trackers		2	
Strings per MPP tracker		2	
Output (AC)			
AC nominal power (W)	17000	20000	25000
Max AC apparent power (VA)	18700	22000	27500
Max output current (A)	25	30	41.6
Nominal AC output		50/60 Hz; 400 Vac	
AC output range		45/55 Hz ; 280 ~ 490 Vac (Adj)	
Power factor		0.8leading...0.8laging	
Harmonics		< 1.5%	
Grid type		3 W/N/PE	
Efficiency			
Max efficiency	98.5%	98.5%	98.5%
Euro efficiency	98.1%	98.1%	98.2%
MPPT efficiency	99.9%	99.9%	99.9%
Safety and Protection			
DC reverse-polarity protection		yes	
DC breaker		yes	
DC/AC SPD		yes	
Leakage current protection		yes	
Insulation Impedance Detection		yes	
Residual Current protection		yes	
General Parameters			
Dimension (W/H/D)(mm)		520*510*160	
Weight (kg)		23	
Operating temperature range °C		-25 ~ +60	
Degree of protection		IP65	
Cooling concept		Smart Cooling	
Topology		Transformerless	
Display		LCD	
Humidity		0-95%, no condensation	
Communication		RS485/WiFi/GPRS	
Warranty		Standard 5 years; 7/10 years optional	
Certificates and Approvals			
CQC, VDE-AR-N4105, VDE0126-1-1, AS4777, IEC61727, IEC62116			



TPL Series (Low Voltage) Three Phase Solar GTI

10.0KW/12.0KW/15.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

comply with international quality standards
tested by TUV,BV,Dekra etc.



Great reliability

IP65 ingress protection
10+years R&D accumulation and support

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REMOTE MONITORING PLATFORM

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Advantage

Designed with low voltage power input small commercial PV applications. For South American market of grid voltage 208V, 220V and 240V. The system configuration can be simplified instead of installation of an expensive transformer which adversely affects the system's conversion efficiency.

THREE PHASE SOLAR GRID TIED INVERTER

Technology Data

Model No	TPL10KTL	TPL12KTL	TPL15KTL
Input (DC)			
Max DC power (W)	16900W	20800W	22100W
Max DC voltage (Vdc)		800Vd.c.	
Min working voltage (Vdc)		100Vd.c.	
MPPT voltage range (Vdc)		150...750Vd.c.	
Max input current / per string (A)	28A/28A	36A/28A	36A/28A
Number of MPP trackers		2	
Strings per MPP tracker		2/2	
Output (AC)			
AC nominal power (W)	11000	14000	15000
Max AC apparent power (VA)	13000	16000	17000
Max output current (A)	32A	40A	43A
Rated AC Voltage / Range [V]		150 ~ 300	
Grid frequency / range [Hz]		50 / 60; ±5	
Adjustable Power Factor [cosφ]		0.8 leading ~ 0.8 lagging	
Output THDi (@Rated Output)		< 3%	
Efficiency			
Max efficiency	98.3%	98.4%	98.5%
Euro efficiency	98.0%	98.1%	98.2%
MPPT efficiency	99.9%	99.9%	99.9%
Safety and Protection			
DC reverse-polarity protection		yes	
DC breaker		yes	
DC/AC SPD		yes	
Leakage current protection		yes	
Insulation Impedance Detection		yes	
Residual Current protection		yes	
General Parameters			
Dimension (W/H/D)(mm)		520/520/160	
Weight (kg)		20	
Operating temperature range °C		-25 ~ +60	
Degree of protection		IP65	
Cooling concept		Smart Cooling	
Topology		Transformerless	
Display		LCD	
Humidity		0-95%, no condensation	
Communication		RS485/WiFi/GPRS	
Warranty		Standard 5 years; 7/10 years optional	
Certificates and Approvals			
CQC, VDE-AR-N4105, VDE0126-1-1, AS4777, IEC61727, IEC62116			



Low Voltage Single Phase Hybrid Inverter

5.0KW/6.0KW



Big lcd display



Excellent off grid ability



Power export limit



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

comply with international quality standards
tested by TUV,BV,Dekra etc.



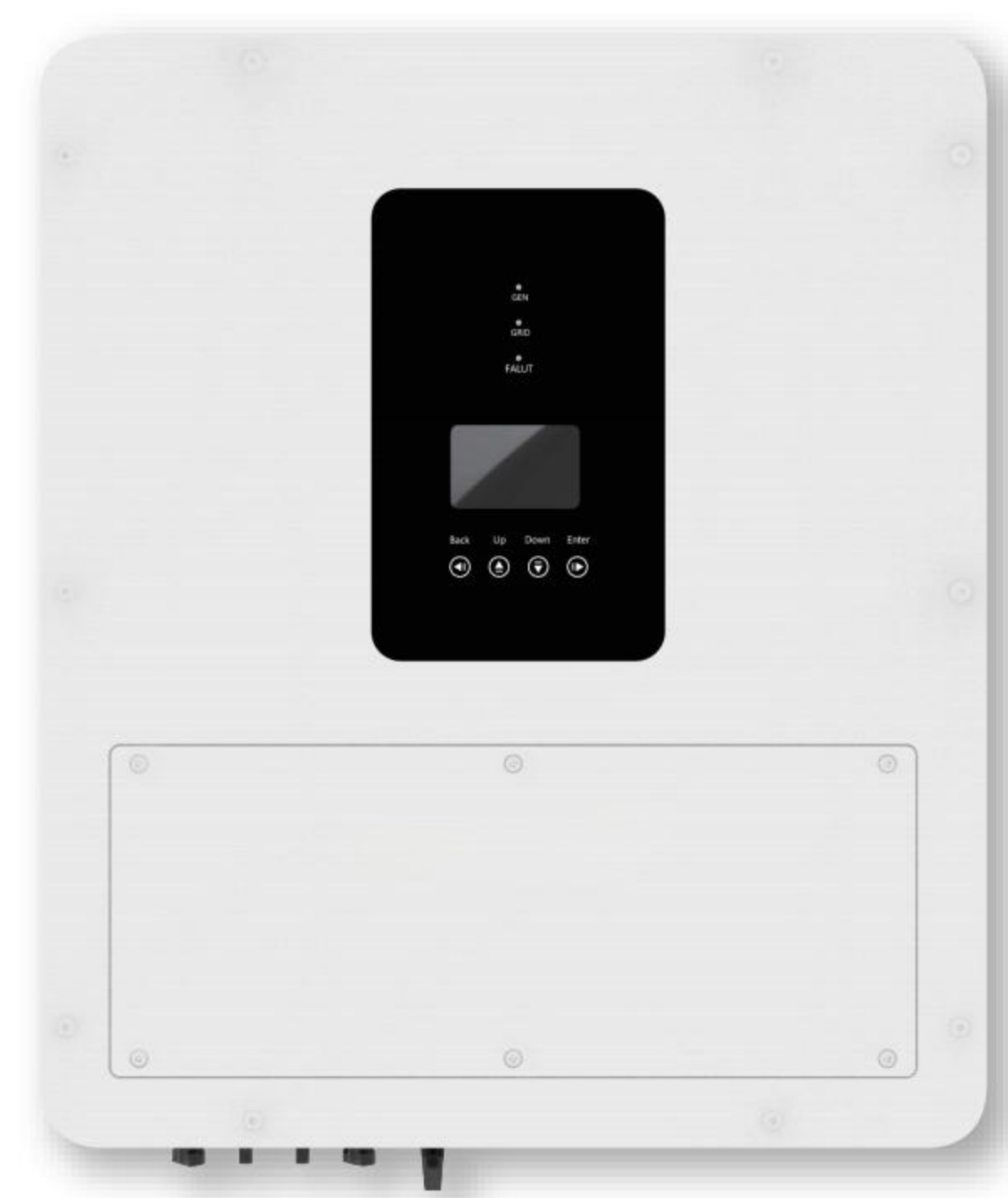
Great reliability

IP65 ingress protection
10+years R&D accumulation and support

ANYTIME,ANYWHERE

REMOTE MONITORING PLATFORM

Monitor system performance in
real-time via smartphone app or
web portal using out advanced
monitoring platform .



SINGLE PHASE HYBRID INVERTER

Technology Data

Model	EPL5000TL	EPL6000TL
PV Input		
Max. PV Input Power(kW)	7.5	9
Max. PV Open Circuit Voltage(V)		550
MPPT Range@Operating Voltage(VDC)		80~520
Full Power MPPT Voltage Range(VDC)	197~500V	250~500V
Start-up Voltage(VDC)		90
Max. Input Current per MPPT(A)		19/19
Max. Short-circuit Current(A)		25/25
MPPT Tracker/Strings		2 / 1
Nominal Input Voltage(V)		360
AC Output(On-Grid)		
Nominal Output Power to Grid(kW)	5	6
Max. Apparent Power to Grid(kVA)	5	6
Max. Apparent Power from Grid(kVA)	5	6
Max. Apparent Current from Grid(A)	21.8	26.1
Nominal Output Current from Grid(A)	21.8	26.1
Max. Output Current to Grid(A)	21.8	26.1
Nominal Voltage/Frequency	230V(176V~280V), 50/60Hz, L+N+PE	
Adjustable Power Factor	0.8leading~0.8lagging	
THDI	<2%	
AC Output(BackUp)		
Nominal Output Power(kW)	5	6
Max. Apparent Power(kVA)	5	6
Nominal Output Current(A)	21.8	26.1
Max. Output Current(A)	21.8	26.1
Nominal Voltage/Frequency	230V(176V~238V), 50/60Hz, L+N+PE	
Automatic Switch Time(ms)	<20	
THDu	<2%	
Overload Capacity	110%, 10s / 150%, 5s / 180%, 1s / 200%, 100ms	
Efficiency		
Max. Efficiency	96.65%	
Europe Efficiency	97.50%	
MPPT Efficiency	99.00%	
Max. Battery Charge/Discharge Efficiency	94.60%	
Battery		
BatteryVoltage Range(V)	40~60	
Recommended Battery Voltage(V)	48	
Max. Charging Voltage(V)	60	
Max. Charging/Discharging Current(A)	120/120	120/120
BatteryType	Lithium and Lead Acid Battery	
Protection		
DC Switch	Yes	
DC Reverse Polarity Protection	Yes	
DC/AC Surge Protection	Type II/Type II	
AC Overvoltage Protection	Yes	
AC Short-circuit Protection	Yes	
Ground Fault Monitoring	Yes	
Anti-islanding Protection	Yes	
Residual-current Monitoring	Yes	
Insulation Resistance Monitoring	Yes	
Peak/Valley Time Setting	Yes	
General Data		
HMI	Touch LCD & APP	
BMS	RS485; CAN	
EMS/Meter	RS485	
Communication	WiFi/LAN	
Ingress Protection	IP66	
Operating Temperature Range	-25~60 °C	
Relative Humidity	0~95%(Non-condensing)	
Max. Operating Altitude	4000m(Derating above 3000m)	
Cooling	Natural	
Noise Emission	≤ 29dB	
Dimensions(W*H*D)	456*530*215mm(without terminal and bracket)	
Net Weight(kg)	24	24
Self-consumption(W)	<15	
Standard Compliance		
Safety Regulation	IEC/EN62109-1/-2	
EMC	IEC/EN61000-6-1/-2/-3/-4	
GridRegulation	IEC61727; IEC62116; Europe: EN50549; Belgium: C10/11; Spain: UNE217002; Italy: CEI 021; South Africa: NRS 097	



High Voltage Three Phase Hybrid Inverter

4.0KW/5.0KW/6.0KW/8.0KW/10.0KW/12.0KW



Big lcd display



Three phase unbalanced output



Power export limit



Wifi/GPRS/Lan communication optional



High Output

Working in 45 degrees high temperature without power degradation



Accuracy

Anti-backflow control accuracy <20W



SML/DRED Function

The latest SML/DRED functions are standard for the entire series

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Monitor system performance in real-time via smartphone app or web portal using our advanced monitoring platform .



THREE PHASE HYBRID INVERTER

Technology Data

EPH Series EPH10KTL (4KW/5KW/6KW/8KW/10KW/12KW)

Model No	EPH4KTL	EPH5KTL	EPH6KTL	EPH8KTL	EPH10KTL	EPH12KTL
Input (DC)						
Max DC power	6000W	7500W	9000W	12000W	15000W	15000W
Max DC voltage	1000Vd.c.					
MPPT voltage range	200...850Vd.c.					
Max input current/per string	13A/13A					
Max.input short circuit per MPPT	18A/18A					
Number of MPP trackers	2					
Strings per MPP tracker	1					
Battery Input						
Battery Type	Li-Ion					
Battery voltage range	130-700V					
Maximum charge/discharge current	25/25A					
Charge strategy for Li-ion Battery	Self-adaptation to BMS					
Output (AC)						
AC nominal power	4000VA	5000VA	6000VA	8000VA	10000VA	12000VA
Max AC apparent power	5000VA	5500VA	7000VA	8800VA	11000VA	13200VA
Max output current	8A	10A	12A	15A	17A	20A
Nominal AC output	50/60Hz; 400/350					
AC output range	45/55Hz;280~490Vac(Adj)					
Power factor	0.8leading...0.8laging					
Harmonics factor	<3%					
Grid type	3W/N/PE					
Three-phase unbalance output	0~100%	0~100%	0~100%	0~100%	0~100%	0~80%
AC Output (Back-up)						
Max AC apparent power	4000VA	5000VA	6000VA	8000VA	10000VA	10000VA
Norminal Output Voltage	400/380V					
Norminal Output Frequency	50/60HZ					
Output THDV (@Linear Load)	<3%					
Efficiency						
Maximum conversion efficiency	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%
European efficiency	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
Max battery to AC Efficiency	97.2%	97.2%	97.4%	97.4%	97.4%	97.4%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection						
DC reverse-polarity protection	yes					
DC breaker	yes					
DC/AC SPD	yes					
Leakage current protection	yes					
Insulation Impedance Detection	yes					
Residual Current protection	yes					
Output short circuit protection	yes					
Battery reverse connection protection	yes					
General Parameters						
Dimension (W/H/D)	516*427*183.5mm					
Weight	26 kg					
Operating temperature range °C	-25°C...+60 °C					
Degree of protection	IP65					
Cooling concept	Natural convection					
Topology	Transformerless					
Display	LCD					
Humidity	0-95%,no condensation					
Communication	Standard WiFi;GPRS/LAN(optional)					
Warranty	Standard 5 years; 7/10 years optional					
BMS communication	CAN/RS485					
Meter communication	RS485					
Certificates and Approvals						
CQC, VDE-AR-N4105,IEC61727, IEC62116, VDE0124-AR-N0124, EN50549, IEC62109, IEC62477						

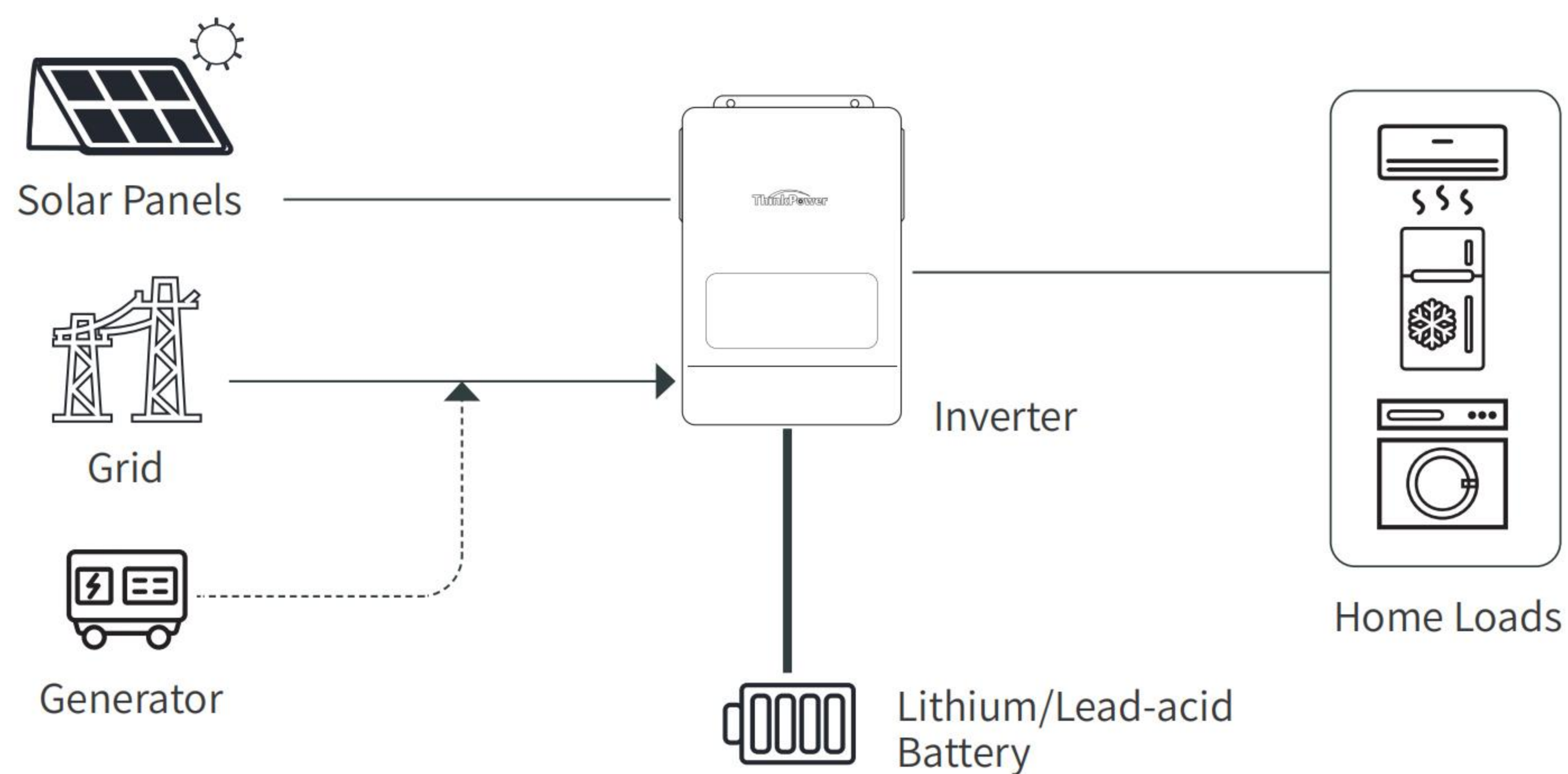
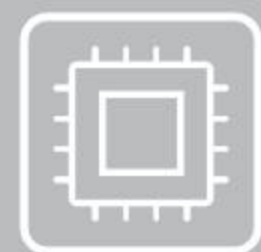
Off-grid Series

TG1200-12



>>> Features

- ▶ Built-in **60A** Solar Charger
- ▶ PV Input Voltage Range **18-125V**
- ▶ Pure Sine Wave
- ▶ Power Factor 1.0
- ▶ Support Lithium/Lead-acid Battery(optional)
- ▶ Lithium Battery Activation
- ▶ Detachable Dust Cover
- ▶ LCD Display
- ▶ Wide Operating Temperature Range **-10 to 60°C**



System Diagram

SOLAR OFF-GRID INVERTER

Technology Data

Model No	TG1200-12
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (KW)	1.2
Surge Power (KVA)	2.4
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	10min@102%~120%load; 60s@120%~150% load; 10s@150%~200%load
Max. Efficiency (Battery Mode)	90%@12VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input current / power	14A / 1000W
MPPT Range@Operating Voltage (VDC)	18~100
Max PV Open Circuit Voltage (VDC)	125
Max PV Charge Current (A)	60
Max AC Charge Current (A)	60
Max. Charge Current (PV+AC)(A)	120
Battery	
Normal Voltage (VDC)	12
Floating Charge Voltage (VDC)	13.8
Overcharge Protection (VDC)	15
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232
Monitoring	NA
General Data	
Ingress Protection	IP21
Operating Temperature	-10℃~50℃
Relative Humidity	5%~95%(Non-condensing)
Storage Temperature	-15℃~60℃
Net Weight (kg)	3.2
Dimensions (W*H*D)	347*236*91mm
Max. Operating Altitude	4000m(Derating above 1000m)
Activation	
AC Activation	YES
PV Activation	YES
Certificates and Approvals	
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2	

Off-grid Series

TG3600-24



>>> Features

- ▶ Built-in **100A** Solar Charger
- ▶ Wide PV Input Voltage Range **40-500V**
- ▶ Support Lithium/Lead-acid Battery
- ▶ Lithium Battery Activation
- ▶ Inverter Work without Battery
- ▶ Workable with Generator
- ▶ Feed-in to Grid
- ▶ WiFi Monitoring(optional)



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REMOTE MONITORING PLATFORM

Monitor system performance in real-time via smartphone app or web portal using our advanced monitoring platform .

SOLAR OFF-GRID INVERTER

Technology Data

Model No	TG3600-24
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (KW)	3.6
Surge Power (KVA)	5.7
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load;0.2s@>150% load
Max. Efficiency (Battery Mode)	92.7%@24VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input Current / Input power	18A / 5000W
MPPT Range@Operating Voltage (VDC)	40~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max. Charge Current (PV+AC)(A)	100
Battery	
Rated Voltage (VDC)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	30.5
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	Wifi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10℃~50℃
Relative Humidity	5%~95%(Non-condensing)
Storage Temperature	-15℃~60℃
Net Weight (kg)	6.4
Dimensions (W*H*D)	420*284*94mm
Max. Operating Altitude	4000m(Derating above 1000m)
Certificates and Approvals	
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2	

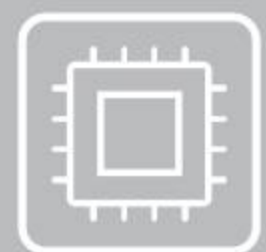
Off-grid Series

TG6200-48



>>> Features

- ▶ Built-in 120A Solar Charger
- ▶ Wide PV Input Voltage Range 60-500V
- ▶ 27A Max. PV Input Current
- ▶ Dual AC Output
- ▶ Support Lithium/Lead-acid Battery
- ▶ Lithium Battery Activation
- ▶ Inverter Work without Battery
- ▶ Feed-in to Grid
- ▶ 5 Inch LCD Display
- ▶ Wide Operating Temperature Range -10 to 60°C
- ▶ Compact and Lightweight, Easy to Install



ANYTIME, ANYWHERE

REMOTE MONITORING PLATFORM

Monitor system performance in real-time via smartphone app or web portal using our advanced monitoring platform .

SOLAR OFF-GRID INVERTER

Technology Data

Model No	TG6200-48
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (KW)	6
Surge Power (KVA)	12
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	10s@ > 150% Load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input current / Input power	27A / 9000W
MPPT Range@Operating Voltage (VDC)	60~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max. Charge Current (PV+AC)(A)	120
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD (RGB optional)
Interface	RS232 / RS485 / USB / Dry Contact
Monitoring	Wifi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10℃~50℃
Relative Humidity	5%~95%(Non-condensing)
Storage Temperature	-15℃~60℃
Net Weight (kg)	10
Dimensions (W*H*D)	410*336*110mm
Max. Operating Altitude	4000m(Derating above 1000m)
Certificates and Approvals	
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2	