

XG3-10kW

Single Phase On-Grid Solar Inverter



Efficient Higher Revenue

- 2 MPP Trackers , Max. input current per string: 20A
- 150% DC Input Oversizing
- Compatible with high power modules



Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485/WiFi/4G: remote monitoring and operation via PC or mobile phones



Reliable Worry Free

- IP66 Protection Degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	XG3KTL-2M	XG3.68KTL	XG4KTL	XG4.2KTL	XG4.6KTL	XG5KTL	XG6KTL	XG7KTL	XG8KTL	XG10KTL	XG7KTL1	XG8KTL1	XG10KTL1
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Input (DC)

Max. Input Power	4.5kW	5.52kW	6kW	6.3kW	6.9kW	7.5kW	9kW	10.5kW	12kW	15kW	10.5kW	12kW	15kW
Max. Input Voltage	600V												
Start Voltage	80V												
Rated Input Voltage	360V												
Full-load MPP Voltage Range	120V ~ 480V	135V ~ 480V	145V ~ 480V	150V ~ 480V	160V ~ 480V	170V ~ 480V	190V ~ 480V	230V ~ 480V	250V ~ 480V	290V ~ 480V	230V ~ 480V	250V ~ 480V	290V ~ 480V
MPPT Voltage Range	80V ~ 560V												
Number of MPP Trackers	2												
Number of String per MPPT	1 / 1											1 / 2	
Max. Current per MPPT	20A											14A / 28A	
Max Short Circuit Current per MPPT	26A											18.2A / 36.4A	

Output (AC)

Max. Output Current	15A	16A	20A	21A	23A	25A	30A	35A	40A	45.5A	35A	40A	45.5A
Rated Output Power	3kW	3.68kW	4kW	4.2kW	4.6kW	5kW	6kW	7kW	8kW	10kW	7kW	8kW	10kW
Max. Output Power	3.3kVA	3.68kVA	4.4kVA	4.62kVA	5kVA	5.5kVA	6.6kVA	7.7kVA	8.8kVA	10kVA	7.7kVA	8.8kVA	10kVA
Rated Grid Frequency	50Hz / 60Hz												
Rated Grid Voltage	220Vac / 230Vac / 240Vac												
Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)												
THDi	<3% (Rated Power)												

Efficiency

Max. Efficiency	98.10%												98.10%
European Efficiency	97.30%												97.30%
MPPT Efficiency	99.90%												

Protection

DC Reverse Polarity Protection	Yes												
Anti-islanding Protection	Yes												
AC short Circuit Protection	Yes												
Residual Current Monitoring Unit	Yes												
Insulation Resistance Monitoring	Yes												
Ground Fault Monitoring	Yes												
Grid Monitoring	Yes												
PV String Monitoring	Yes												
Surge Protection	Type II												
AFCI Protection	Optional												

Communication

Display	LCD / LED+APP												
Communication	RS485 / WiFi / 4G												

Standard Compliance

Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI0-21, C10/C11, G98/G99, RD244, UNE217001, UNE217002, TOR Erzeuger, AS4777, ABNT, NB/T 32004												
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General Data

Dimensions (W x H x D)	380 x 380 x 160 mm												
Weight	13kg												
Operating Temperature Range	-30° C ~ +60° C												
Cooling Method	Natural											Smart Cooling	
Protection Degree	IP66												
Max. Operating Altitude	4000m												
Relative Humidity	0 ~ 100%												
Topology	Transformerless												
Night Power Consumption	<1W												

● a: For AS4777, Rated Output Power of XG5KTL is 4999W.

● b: For VDE-AR-N 4105, Max. Output Power of XG4K6TL is 4600VA. For AS4777, Max. Output Power of XG4K6TL is 4999VA.

● c: For AS4777, Max. Output Power of XG5KTL is 4999VA.

● d: For AS4777, Max. Output Current of XG4K6TL and XG5KTL is 21.7A.

