

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 automaticallydetect 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-1M	XG3KTL	XG3K6TL	XG4KTL	XG4K2TL	XG4K6TL	XG5KTL	XG6KTL	XG7KTL	XG8KTL	XG10KTL	XG7KTL1	XG8KTL1	XG10KTL1
Input (DC)														
Max. Input Power	4.5kW	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	190V ~ 480V	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	1	2												
Number of String per MPPT	1	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%			98.30%					98.10%					
European Efficiency	97.30%			97.40%					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	LED / LCD / WiFi+App													
Communication	RS485 / WiFi / 4G													
Standard Compliance														
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4105:2018, VDE-AR-N 4120:2018, EN 50549, AS/NZS 4777.2:2020, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA DRRG, NRS 097-2-1, MEA/PEA, C10/11, G98/G99													
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011													
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 air 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.