

XG1-5kW-S

Single Phase On-Grid Solar Inverter



**Efficient
Higher Revenue**

- 150% DC Input Oversizing
- Wide MPPT voltage range: 50V-550V
- Max. input current per string: 20A, 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

SPECIFICATION

	XG1KTL-S	XG1.5KTL-S	XG2KTL-S	XG2.5KTL-S	XG3KTL-S	XG3.68KTL-S	XG4KTL-S	XG4.2KTL-S	XG5KTL-S
Input (DC)									
Max. Input Power	1.5kW	2.25kW	3kW	3.75kW	4.5kW	5.52kW	6kW	6.3kW	7.5kW
Max. Input Voltage	600V								
Start Voltage	50V								
Rated Input Voltage	360V								
MPPT Voltage Range	50V ~ 550V								
Number of MPPT Trackers / String per MPPT	1 / 1								
Max. Current per MPPT	20A								
Max.ShortCircdCurrentperMPPT	26A								
Output (AC)									
Max. Output Current	5A	7.5A	10A	12.5A	15A	16A	20A	21A	22.7A
Rated Output Power	1kW	1.5kW	2kW	2.5kW	3kW	3.68kW	4kW	4.2kW	5kW
Max. Output Power	1.1kVA	1.65kVA	2.2kVA	2.75kVA	3.3kVA	3.68kVA	4.4kVA	4.62kVA	5kVA
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	97.30%			97.60%			97.80%		
European Efficiency	97.00%			97.20%			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									
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4105, EN 50438, AS/NZS 4777, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA DR66, NRS 0912-1, C10111, 698/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)	270 x 250 x 130 mm								
Weight	5.5kg								
Operating Temperature Range	-30° C ~ +60° C								
Cooling Method	Natural								
Protection Degree	IP66								
Max. Operating Altitude	4000m								
Relative Humidity	0 ~ 100%								
Topology	Transformerless								
Night Power Consumption	<1W								