

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

	XG1KTL-S	XG1.5KTL-S	XG2KTL-S	XG2.5KTL-S	XG3KTL-S	XG3.68KTL-S	XG4KTL-S	XG4.2KTL-S	XG4.6KTL-S	XG5KTL-S
Input (DC)										
Max. Input Power	1.5kW	2.25kW	3kW	3.75kW	4.5kW	5.52kW	6kW	6.3kW	6.9kW	7.5kW
Max. Input Voltage	600V									
Start Voltage	50V									
Rated Input Voltage	360V									
MPPT Voltage Range	50V ~ 550V									
Number of MPP Trackers / String per MPPT	1 / 1									
Max. Current per MPPT	20A									
Max. Short Circuit Current per MPPT	26A									
Output (AC)										
Max. Output Current	5A	7.5A	10A	12.5A	15A	16A	20A	21A	22.7A ^d	22.7A ^d
Rated Output Power	1kW	1.5kW	2kW	2.5kW	3kW	3.68kW	4kW	4.2kW	4.6kW	5kW ^a
Max. Output Power	1.1kVA	1.65kVA	2.2kVA	2.75kVA	3.3kVA	3.68kVA	4.4kVA	4.62kVA	5kVA ^b	5kVA ^c
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										
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116									
General Data										
Dimensions (W x H x D)	270 x 250 x 130 mm					270 x 250 x 145 mm				
Weight						6kg				
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									

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

● b: For VDE-AR-N 4105, Max. Output Power of XG4.6KTL-S is 4600VA. For AS4777, Max. Output Power of XG4.6KTL-S is 4999VA.

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

● d: For AS4777, Max. Output Current of XG4.6KTL-S and XG5KTL-S is 21.7A.

