

# XG50-70kW

## Three Phase On-Grid Solar Inverter



### Efficient Higher Revenue

- 4 MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- 160% DC Input Oversizing
- Wide MPPT voltage range: 200V-1000V
- 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/GPRS/Ethernet optional): 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

		XG50KTR
<b>Input (DC)</b>		
Max. Input Power		80kW
Max. Input Voltage		1100V
Start Voltage		250V
Rated Input Voltage		600V
Full-load MPP Voltage Range		520V ~ 850V
MPPT Voltage Range		200V ~ 1000V
Number of MPP Trackers		4
Number of string per MPPT		3 / 2 / 3 / 2
Max. Current per MPPT		39A / 26A / 39A / 26A
Max. Short Circuit Current per MPPT		48A / 32A / 48A / 32A
<b>Output (AC)</b>		
Max. Output Current		79.7A
Rated Output Power		50kW
Max. Output Power		55kVA
Rated Grid Frequency		
Rated Grid Voltage		230Vac / 400Vac
Power Factor		>0.99 (0.8 leading~0.8 lagging)
THDi		<3% (Rated Power)
<b>Efficiency</b>		
Max. Efficiency		98.70%
European Efficiency		98.40%
MPPT Efficiency		99.90%
<b>Protection</b>		
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
<b>Communication</b>		
Display		LED / LCD / WiFi+App
Communication		Standard: RS485 Optional: WiFi / GPRS / Ethernet
<b>Standard Compliance</b>		
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
<b>General Data</b>		
Dimensions (W x H x D)		650 x 450 x 260 mm
Weight		50kg
Operating Temperature Range		-30° C ~ +60° C
Cooling Method		Smart Cooling
Protection Degree		IP66
Max. Operating Altitude		4000m
Relative Humidity		0 ~ 100%
Topology		Transformerless
Night Power Consumption		<1W