

XG3-15kW

Three Phase On-Grid Solar Inverter



Efficient Higher Revenue

- 2MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- 160% DC Input Oversizing
- Wide MPPT voltage range: 180V-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

| | XG3KTR | XG4KTR | XG5KTR | XG6KTR | XG8KTR | XG9KTR | XG10KTR | XG11KTR | XG12KTR | XG15KTR1 | |
|-------------------------------------|--|--------|--------|-------------|--------|-------------|---------|-------------|---------|-------------------------|--|
| Input (DC) | | | | | | | | | | | |
| Max. Input Power | 4.8kW | 6.4kW | 8kW | 9.6kW | 12.8kW | 14.4kW | 16kW | 17.6kW | 19.2kW | 24kW | |
| Max. Input Voltage | 1100V | | | | | | | | | | |
| Start Voltage | 160V | | | | | | | | | | |
| Rated Input Voltage | 600V | | | | | | | | | | |
| Full-load MPP Voltage Range | 250V ~ 850V | | | 320V ~ 850V | | 400V ~ 850V | | 450V ~ 850V | | 480V ~ 850V 500V ~ 850V | |
| MPPT Voltage Range | 180V ~ 1000V | | | | | | | | | | |
| Number of MPP Trackers | 2 | | | | | | | | | | |
| Number of String per MPPT | 1 / 1 | | | | | | | | | 1 / 2 | |
| Max. Current per MPPT | 14A / 14A | | | | | | | | | 14A / 28A | |
| Max. Short Circuit Current per MPPT | 18A / 18A | | | | | | | | | 18A / 36A | |
| Output (AC) | | | | | | | | | | | |
| Max. Output Current | 4.8A | 6.4A | 8A | 9.6A | 12.8A | 14.4A | 15.9A | 17.5A | 19.1A | 23.9A | |
| Rated Output Power | 3kW | 4kW | 5kW | 6kW | 8kW | 9kW | 10kW | 11kW | 12kW | 15kW | |
| Max. Output Power | 3.3kVA | 4.4kVA | 5.5kVA | 6.6kVA | 8.8kVA | 9.9kVA | 11kVA | 12.1kVA | 13.2kVA | 16.5kVA | |
| Rated Grid Frequency | 50Hz / 60Hz | | | | | | | | | | |
| Rated Grid Voltage | 230Vac / 400Vac, 3L / N / PE | | | | | | | | | | |
| Power Factor | >0.99 (0.8 leading~0.8 lagging) | | | | | | | | | | |
| THDi | <3% (Rated Power) | | | | | | | | | | |
| Efficiency | | | | | | | | | | | |
| Max. Efficiency | 98.40% | | | | | 98.70% | | | | | |
| European Efficiency | 98.30% | | | | | 98.50% | | | | | |
| 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 | | | | | | | | | | |
| Surge protection | Type II | | | | | | | | | | |
| AFCI protection | Optional | | | | | | | | | | |
| Communication | | | | | | | | | | | |
| Display | LED / LCD / WiFi+App | | | | | | | | | | |
| Communication | Standard: RS485 Optional: WiFi / GPRS / Ethernet | | | | | | | | | | |
| 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) | 481 x 395 x 195 mm | | | | | | | | | | |
| Weight | 12kg | | | | | 13.5kg | | | | | |
| 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 | | | | | | | | | | |