

# XG100-136KTR

## Three Phase On-Grid Solar Inverter



**Efficient**  
Higher Revenue



**Intelligent**  
Simple O&M



**Reliable**  
Worry Free

- 9-12 MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- 150% DC Input Oversizing
- Maximum efficiency of 98.7% Wide MPPT voltage range: 180V~1000V
- Compatible with high power modules
- 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/DRM/Bluetooth optional): remote monitoring and operation via PC or mobile phones
- 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

|                                     | XG100KTR-F                                                                                                                                                                                                          | XG110KTR-F                                          | XG136KTR-F                            | XG136KTR-F                            |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------|---------------------------------------|
| Input (DC)                          |                                                                                                                                                                                                                     |                                                     |                                       |                                       |
| Max. Input Power                    | 150kW                                                                                                                                                                                                               |                                                     | 110kW                                 | 160kW                                 |
| Max. Input Voltage                  |                                                                                                                                                                                                                     |                                                     | 250V                                  |                                       |
| Start Voltage                       |                                                                                                                                                                                                                     |                                                     | 730V                                  | 780V                                  |
| Rated Input Voltage                 |                                                                                                                                                                                                                     |                                                     |                                       |                                       |
| Full-load MPP Voltage Range         |                                                                                                                                                                                                                     |                                                     |                                       | 560V ~ 850V                           |
| MPPT Voltage Range                  |                                                                                                                                                                                                                     | 180V ~ 1000V                                        |                                       |                                       |
| Number of MPP Trackers              | 9                                                                                                                                                                                                                   | 10                                                  |                                       | 12                                    |
| Number of string per MPPT           |                                                                                                                                                                                                                     | 2                                                   |                                       |                                       |
| Max. Current per MPPT               |                                                                                                                                                                                                                     | 30A                                                 |                                       |                                       |
| Max. Short Circuit Current per MPPT |                                                                                                                                                                                                                     | 40A                                                 |                                       |                                       |
| Output (AC)                         |                                                                                                                                                                                                                     |                                                     |                                       |                                       |
| Max. Output Current                 | 158.8A                                                                                                                                                                                                              |                                                     | 174.6A                                | 160.4A                                |
| Rated Output Power                  | 100kW                                                                                                                                                                                                               | 110kW                                               |                                       | 136kW                                 |
| Max. Output Power                   | 110kVA                                                                                                                                                                                                              | 121kVA                                              |                                       | 150kVA                                |
| Rated Grid Frequency                |                                                                                                                                                                                                                     |                                                     | 50~60Hz                               |                                       |
| Rated Grid Voltage                  | 230Vac / 400Vac; 3L / N / PE; 3L / PE                                                                                                                                                                               |                                                     | 270Vac / 480Vac; 3L / N / PE; 3L / PE | 311Vac / 540Vac; 3L / N / PE; 3L / PE |
| Power Factor                        |                                                                                                                                                                                                                     | >0.99 (0.8 leading ~ 0.8 lagging)                   |                                       |                                       |
| THDi                                |                                                                                                                                                                                                                     | <3% (Rated Power)                                   |                                       |                                       |
| Efficiency                          |                                                                                                                                                                                                                     |                                                     |                                       |                                       |
| Max. Efficiency                     |                                                                                                                                                                                                                     | 98.70%                                              |                                       |                                       |
| European Efficiency                 |                                                                                                                                                                                                                     | 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                                   |                                       |
| PV string monitoring                |                                                                                                                                                                                                                     |                                                     | Yes                                   |                                       |
| Surge protection                    |                                                                                                                                                                                                                     |                                                     | Type II                               |                                       |
| AFCI protection                     |                                                                                                                                                                                                                     |                                                     | Optional                              |                                       |
| Communication                       |                                                                                                                                                                                                                     |                                                     |                                       |                                       |
| Display                             |                                                                                                                                                                                                                     | LCD / LED+APP                                       |                                       |                                       |
| Communication                       |                                                                                                                                                                                                                     | Standard: RS485<br>Optional: WIFI / DRM / Bluetooth |                                       |                                       |
| Standard Compliance                 |                                                                                                                                                                                                                     |                                                     |                                       |                                       |
| Certification                       | IEC/EN 62109-1/2, IEC/EN 61000-5-1/3, IEC/EN 61000-6-2/4, EN50549, IEC61727/IE62116, CEI 0-21/CEI 0-16, C10/C11, VDE 4105, VDE 0124, G99, RD244, UNE217001, UNE217002, NC R65, TOR Erzeuger, NRS097-z-1, NB/T 32004 |                                                     |                                       |                                       |
| General Data                        |                                                                                                                                                                                                                     |                                                     |                                       |                                       |
| Dimensions (W x H x D)              |                                                                                                                                                                                                                     | 1050 x 650 x 330 mm                                 |                                       |                                       |
| Weight                              | 95kg                                                                                                                                                                                                                | 98kg                                                |                                       | 101kg                                 |
| Operating Temperature Range         |                                                                                                                                                                                                                     | -30° C ~ +60° C                                     |                                       |                                       |
| Cooling Method                      |                                                                                                                                                                                                                     | Smart forced air cooling                            |                                       |                                       |
| Protection Degree                   |                                                                                                                                                                                                                     | IP66                                                |                                       |                                       |
| Max. Operating Altitude             |                                                                                                                                                                                                                     | 4000m                                               |                                       |                                       |
| Relative Humidity                   |                                                                                                                                                                                                                     | 0 ~ 100%                                            |                                       |                                       |
| Topology                            |                                                                                                                                                                                                                     | Transformerless                                     |                                       |                                       |
| Night Power Consumption             |                                                                                                                                                                                                                     | <1W                                                 |                                       |                                       |