# WG50-60KTR

## Three Phase On-Grid Solar Inverter



### Efficient Higher Revenue

- 3-4 MPP Trackers, high single circuit tracking accuracy,  fast dynamic response
- 160% DC Input Oversizing
- Maximum efficiency of ⊠⊠.⊠%. 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

- IP65 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



| Technical Data | WG50KTR | WG60KTR |
|---|---|---|
| **Input(DC)** | | |
| Max. PV Input Voltage | 1100V | |
| Min. PV Input Voltage | 180V | |
| Rated PV Input Voltage | 600V | |
| MPPT  Operating Voltage Range | 160~1000V | |
| No. of Independent MPPT Inputs | 4 | |
| No. of PV Strings Per MPPT | 2/2/2/2 | |
| Max. PV Input Current | 40/40/40/40A | |
| Max. DC Short-circuit Current Per MPPT | 60/60/60/60A | |
| **Output(AC)** | | |
| Rated AC Output Power | 50000W | 60000W |
| Max. AC Output Apparent Power | 55000VA | 66000VA |
| Nominal Output Voltage | 400V,3W+N+PE or 3W+PE | |
| Nominal AC Grid Frequency | 50/60Hz | |
| AC Grid Frequency Range | 45~55Hz/55~65Hz | |
| Max. AC Output Current (PF=0.9) | 79.7A | 95.7A |
| Power Factor | >0.99(at nominal power) | |
| Adjustable Power Factor | 0.8 leading~0.8 lagging | |
| Max. Total Harmonic Distortion | <3%(at nominal power) | |
| **Efficiency** | | |
| Max. Efficiency | 98.60% | |
| European Efficiency | 98.30% | |
| MPPT Efficiency | 99.90% | |
| **Protection & function** | | |
| DC Reverse Polarity Protection | Integrated | |
| DC Switch | Integrated | |
| PV Insulation Resistance Detection | Integrated | |
| Grid Monitoring | Integrated | |
| Leakage Current Protection | Integrated | |
| Anti-islanding Protection | Integrated | |
| AC Short Circuit Protection | Integrated | |
| Smart I-V Curve Diagnosis | Integrated | |
| Surge Protection | DC Type II & AC Type II | |
| PV String Current Monitoring | Optional | |
| Arc Fault Circuit Interrupter (AFCI) | Optional | |
| PID Recovery | Optional | |
| Anti-reflux Protection | Optional | |
| **General data** | | |
| Dimensions(W * H * D) | 590 × 480 × 237 mm | |
| Weight | 34kg | 35kg |
| Operating Temperature Range | -30°C ~ +60°C (>45°C derating) | |
| Relative Humidity | 0~100% | |
| Max. Operating Altitude | 4000m  (>2000m derating) | |
| Night Power Consumption | <1W | |
| Topology | Transformerless | |
| Cooling Method | Smart Fan Cooling | |
| Degree of Protection | IP66 | |
| DC Connection Type | MC4 | |
| AC Connection Type | OT/DT terminal | |
| **Display & communication** | | |
| Display | LED,WIFI/Bluetooth+APP | |
| Communication | Integrated:RS485/4G, Optional:USB/WIFI/Bluetooth | |
| **Standard Compliance** | | |
| Certification | NB/T32004,EN 50549-1/2,VDE-AR-N 4105,CEI 0-21,RD 1699 | |
| Compliance | IEC62109-1/2, IEC62116, IEC61727, IEC61683, IEC60068(1,2,14,30),GB/T 37408 | |
| EMC Compliance | EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4 | |