



Features

Efficient Higher Revenue

- 2 MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- 160% DC input oversizing
- Maximum efficiency of 98.4%. 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

Data Sheet

Model	TG-3K	TG-4K	TG-5K	TG-6K	TG-8K	TG-10K	TG-12K	TG-15K
Input (DC)								
Max. Input Power	4.8KW	6.4KW	8KW	9.6KW	12.8KW	16KW	19.2KW	24KW
Max. Input Voltage	1100V							
Start Voltage	200V							
Rated Input Voltage	600V							
MPPT Voltage Range	180-1000V							
Number of MPP Trackers	2							
Number of String per MPPT	1/1							
Max. Current per MPPT	18A							
Max. Short Circuit Current per MPPT	25A							
Output (AC)								
Rated Output Power	3KW	4KW	5KW	6KW	8KW	10KW	12KW	15KW
Max. Output Current	4.8A	6.4A	8A	9.6A	12.8A	15.9A	19.1A	23.9A
Max. Output Power	3.3KVA	4.4KVA	5.5KVA	6.6KVA	8.8KVA	11KVA	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%			
Euro. Efficiency	98.30%				98.50%			
MPPT Efficiency	99.90%							
Protection								
Protection	DC reverse polarity protection, anti-islanding protection, AC short circuit protection, residual current monitoring unit, insulation resistance monitoring, ground fault monitoring, grid monitoring, surge protection(Type II), AFCI protection (optional)							
Communication								
Display	LCD / LED + APP							
Communication	Standard: RS485, optional: WIFI / GPRS / Ethernet							
Standard Compliance								
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC61683, IEC60068, IEC61727/IEC62116, EN50549, CEI0-21, C10/C11, VDE 4105, VDE 0124, G98/G99, RD244, UNE217001, UNE217002, NC RfG, TOR Erzeuger, AS4777, ABNT, NB/T 32004, BIS							
General Data								
Dimension (W*H*D) mm	481*390*190							
Weight	12KG				13.5KG			
Operating Temperature Range	-30°C~+60°C							
Cooling Method	Natural cooling							Smart Cooling
Protection Degree	IP66							
Max. Operating Altitude	4000m							
Relative Humidity	0~100%							
Topology	Transformerless							
Night Power Consumption	< 1W							