WG3-15KTR

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

- 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	WG3KTR	WG4KTR	WG5KTR	WG6KTR	WG7KTR	WG8KTR	WG9KTR	WG10KTR	WG11KTR	WG12KTR	WG13KTR	WG15KTR
Input Data (DC)												
Max. Input Power (for module STC)	4.5 kW	6 kW	7.5 kW	9 kW	10.5 kW	12 kW	13.5 kW	15 kW	16.5 kW	18 kW	19.5 kW	22.5 kW
Max. DC Voltage	1100 V											
Start-up Voltage	180 V											
Nominal Voltage	600 V											
MPPT Voltage Range	140~1000 V											
No. of MPP Trackers	2											
No. of PV Strings per MPP Tracker	1 / 1				1 / 2							
Max. Input Current per MPP Tracker	16A / 16A				16A / 32A							
Output Data (AC)												
Nominal Output Power	3 kW	4 kW	5 kW	6 kW	7 kW	8 kW	9 kW	10 kW	11 kW	12 kW	13 kW	15 kW
Max. AC Apparent Power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	7.7 kVA	8.8 kVA	9.9 kVA	11.1 kVA	12.1 kVA	13.2 kVA	14.3 kVA	16.5 kVA
Nominal AC Voltage (Range)	230 / 400 V (340~440 V)											
AC Grid Frequency (Range)	50 / 60 Hz (45~55 / 55~65Hz)											
Max. Output Current (PF=0.9)	4.8 A	6.4 A	8.0 A	9.6 A	11.2 A	12.8 A	14.4 A	15.9 A	17.5 A	19.1 A	20.7 A	23.9 A
Adjustable Power Factor	0.8leading...0.8lagging											
THDi	<3%											
AC Grid Connection Type	3L/N/PE or 3L/PE											
Efficiency												
Max. Efficiency	98.4%				98.5%						98.6%	
European Efficiency	97.5%				98.0%						98.1%	
MPPT Efficiency	99.9%				99.9%						99.9%	
Protection												
Anti Reverse Power Function	Optional											
DC Reverse Polarity Protection	Yes											
DC Switch	Yes											
AC/DC Surge Protection	Type II											
Insulation Resistance Monitoring	Yes											
AC Short-circuit Protection	Yes											
Grid Monitoring	Yes											
Anti-islanding Protection	Yes											
Residual-current Monitoring Unit	Yes											
String Fault Monitoring	/	Optional										
AFCI Protection	Optional											
General Data												
Dimensions (W×H×D)	440 × 370 × 140 mm				440 × 370 × 186 mm						440 × 370 × 186 mm	
Weight	13 kg				16 kg						18 kg	
Operating Temperature Range	-25°C ~ +60°C (>45°C derating)											
Relative Humidity	0~100%											
Altitude	4000 m (>2000 m derating)											
Self-consumption at Night	<1 W											
Topology	Transformerless											
Cooling	Natural Cooling										Intelligent Air Cooling	
Protection Degree	IP66											
DC Connection	H4 / MC4(Optional)											
AC Connection	Connector											
Guarantee Period	5 Years / 10Years(Optional)											
Display and Communication												
Display	LED & LCD											
Communication	Yes:RS485/USB, Optional:4G/WiFi											
Criteria Met												
Grid Connection Standards	G98/G99, VDE0126, VDE4105, VDE0124, EN50549-1/2, CEI 0-21/CEI 0-16, AS4777.2, IEC61727, IEC62116, PEA, MEA											
Safety Standards	IEC62109-1/2, IEC62116, IEC61727, IEC61683, IEC60068(1,2,14,30)											
EMC Standards	EN61000-6-1/2/3/4											