WG17-30KTR

Three Phase On-Grid Solar Inverter



Efficient
Higher Revenue

- 2 MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- 160% DC Input Oversizing
- Maximum efficiency ⊠.⊠%. 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	WG17KTR	WG20KTR	WG22KTR	WG25KTR	WG30KTR
Input Data (DC)					
Max. Input Power (for Module STC)	25.5 kW	30 kW	33 kW	37.5 kW	45 kW
Max. DC Voltage	1100 V				
Start-up Voltage	180 V				
Nominal Voltage	600 V				
MPPT Voltage Range	160~1000 V				
No. of MPP Trackers	2				
No. of PV Strings per MPP Tracker	2 / 2				
Max. Input Current per MPP Tracker	32A / 32A				
Output Data (AC)					
Nominal Output Power	17 kW	20 kW	22 kW	25 kW	30 kW
Max. AC Apparent Power	18.7 kVA	22 kVA	24.2 kVA	27.5 kVA	33 kVA
Nominal AC Voltage	230 V / 400 V				
AC Grid Frequency (Range)	50 / 60 Hz (45 ~ 55 Hz / 55 ~ 65 Hz)				
Max. Output Current (PF=0.9)	28.4 A	33.4 A	36.8 A	41.8 A	48.3 A
Power Factor (Rated Power)	>0.99				
Adjustable Power Factor	0.8leading...0.8lagging				
THDi	<3%				
AC Grid Connection Type	3L/N/PE or 3L/PE				
Efficiency					
Max. Efficiency	98.5%				
European Efficiency	98.1%				
MPPT Efficiency	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				
RCD Detection (GFCI)	Yes				
AC Short-circuit Protection	Yes				
Grid Monitoring	Yes				
Anti-islanding Protection	Yes				
Residual-current Monitoring Unit	Yes				
PID Recovery Function	Optional				
String Fault Monitoring	Yes				
AFCI Protection	Optional				
General Data					
Dimensions (W×H×D)	520 x 420 x 242 mm				
Weight	≤25kg				
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	Intelligent Air Cooling				
Protection Degree	IP66				
DC Connection	H4 / MC4(Optional)				
Guarantee Period	5 Years / 10 Years(Optional)				
Display and Communication					
Display	LED & LCD				
communication	Yes:RS485/USB, Optional:4G/WiFi				
Criteria Met					
Grid Connection Standards	G98/G99, VDE0126, VDE4105, VDE0124, EN50438, EN50549-1/2, CEI0-21/CEI0-16, AS 4777.2, 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				