WG33-40KTR

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	WG33KTR	WG36KTR	WG40KTR
Input Data (DC)			
Max. Input Power (for Module STC)	49.5 kW	54 kW	60 kW
Max. DC Voltage	1100 V		
Start-up Voltage	180 V		
Nominal Voltage	600 V		
MPPT Voltage Range	200-1000 V		
No. of MPP Trackers	3		4
No. of PV Strings per MPP Tracker	2 / 2 / 2		2 / 2 / 2 / 2
Max. Input Current per MPP Tracker	32A*3		32A*4
Max. Input short Current per MPP Tracker	40A*3		40A*4
Output Data (AC)			
Nominal Output Power	33 kW	36 kW	40 kW
Max. AC Apparent Power	36 kVA	39.6 kVA	44 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)	54.5 A	60 A	66.7 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%		
European Efficiency	98.0%		
MPPT Efficiency	99.9%		
Protection			
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)	590 x 480 x 237 mm		
Weight	≤32 kg	≤34 kg	≤35 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	Intelligent Air Cooling		
Protection Degree	IP66		
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, EN50549-1/2, CEI0-21/CEI 0-16, AS4777.2, IEC61727, IEC62116, PEA, MEA		
Safety Standards	IEC62109-1/2, IEC62116, IEC61727, IEC61683, IEC60068(1,2,14,30)		
EMC Standards	EN61000-6-2/4		