

Energrid WP (50KW)

- Pure sine wave output
- Output power factor 1.0
- IP65 waterproof and dustproof makes the inverter suitable for various working conditions
- Built-in Wi-Fi for mobile monitoring (App is available)
- 150% unbalanced load support
- Generator input compatible
- User-adjustable charging current up to 65A
- Wide battery input range
- Built-in communication port for BMS (RS485)
- 5 years warranty
- Parallel operation up to 4 units



Specifications

MODEL	Energrid WP 50KM-HV
Maximum PV Input Power	65000 W
Rated Output Power	50000 W
Maximum Charging Power	50000 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	4/ A: 32A, B: 32A, C: 32A, D:32A
Number of Strings Per MPP Tracker	A: 2, B: 2, C: 2, D:2
GRID/UTILITY OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz
Power Factor	0.9 lag to 0.9 lead
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96.5%
European Efficiency@ Vnominal	96%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	83 A
PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	4/ A: 32A, B: 32A, C: 32A, D:32A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	97%
BATTERY & CHARGER	
Battery Voltage Range	500~800VDC
Maximum Charging Current	65A
HYBRID OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	4/ A: 32A, B: 32A, C: 32A, D:32A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	73 A per phase

Specifications

AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 – 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range	170 – 280 VAC per phase
Maximum AC Input Current	83 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	97%
BATTERY & CHARGER	
Battery Voltage Range	500 ~ 800 VDC
Maximum Charging Current	65 A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	268 x 660 x 750
Net Weight (kgs)	100
INTERFACE	
Communication Port	RS-232, USB, DRY CONTACT, RS-485, Wi-Fi
Intelligent Slot	Optional SNMP, MODBUS and GPRS
ENVIRONMENT	
Humidity	0 ~ 100% RH
Operating Temperature	-25°C to 60°C (>45°C De-rating)
Altitude	0 ~ 1000 m**

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m

Product specifications are subject to change without further notice.