



Renewable Power Converter

2kW Renewable Power Converter

Features

- Transformer-less design
- Wide input voltage range and better compatible with generators
- High speed MPPT control, rapidly capture renewable energy
- With PFC function, reduce noise from the generator
- No adapter box with the wind, and easier to install
- Maximum conversion efficiency of 95.2%
- THD < 4%
- Automatically detects grid frequency 50/60Hz
- LCD status display
- IP65 protection against dust and water
- HMI RS485 communication



Specifications Summary

- Model: HWI-200A-1

Input	
Working voltage range	45 ~ 300 Vac / 65 ~ 450 Vdc
Maximum input voltage	318 Vac / 450 Vdc
Nominal input current	7 Aac / 8Adc
Maximum input current	10A
Number of MPPT	1
Standby power	< 10W
Output	
Nominal output power	2000 W
Maximum output power	2100 W
Nominal output voltage	230 Vac
Output voltage range	186 Vac ~264 Vac
Nominal output current	8.7A
Maximum output current	10A
Frequency	50 Hz / 60 Hz
Power factor	> 0.95
Harmonic distortion	< 4 % (nominal power)
Output connector	Single-phase (L, N, G)
Conversion Efficiency	
Maximum Efficiency	95.2 %

Protection	
Temperature	40°C
Grid system	Voltage abnormal and frequency abnormal
Islanding	Passive detection
	Active detection
Environment	
Operating temperature range	Celsius -20°C ~ 55°C ; Fahrenheit -4 °F ~ 131 °F (2kW ratings apply at 40°C ambient temperature. At higher temperature (up to 55°C) the derating.)
Altitude	0 ~ 2000m ; 0 ~ 6562ft
Mechanical information	
Dimension (HxWxD)	459 x 339 x 179 mm
Weight	15.5 kg
Protection grade	IP65
Cooling mode	Passive cooling
Other	
Display	LCD, LED
Communication	RS485
Authenticate	
Certificate	VDE AR-N-4105 EN-50178 EN-61000-6-2 EN-61000-6-3

5kW Renewable Power Converter

Features

- Transformer-less design
- Wide input voltage range and better compatible with generators
- High speed MPPT control, rapidly capture renewable energy
- With PFC function, reduce noise from the generator
- Maximum conversion efficiency of 95%
- THD < 3%
- Automatically detects grid frequency 50/60Hz
- LCD status display
- IP65 protection against dust and water
- HMI RS485 communication

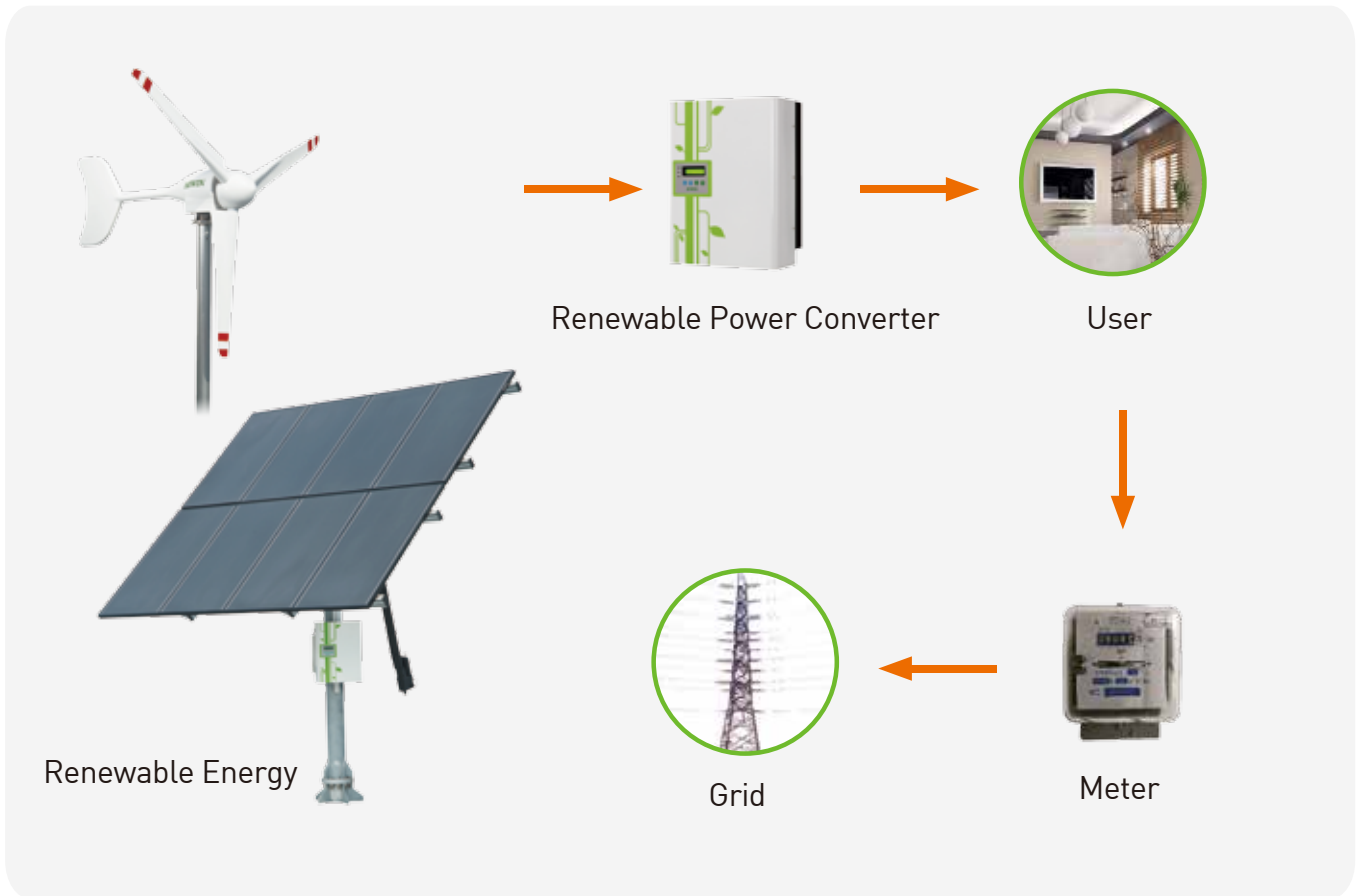


Specifications Summary

- Model: HWI-500A-3

Input		Protection	
Working voltage range	90 ~ 345 Vac	Temperature	40°C
Maximum input voltage	400 Vac	Grid system	Voltage abnormal, Frequency abnormal
Nominal input current	8.4 Aac	Islanding	Passive detection
Maximum input current	9.2 Aac		Active detection
Number of MPPT	1	Environment	
Standby power	< 10W	Operating temperature range	Celsius -20°C ~ 55°C ; Fahrenheit -4 °F ~ 131 °F (5kW ratings apply at 40°C ambient temperature. At higher temperature (up to 55°C) the derating.)
Output			Altitude
Nominal output power	5000 W	Mechanical information	
Maximum output power	5500 W	Dimension (HxWxD)	640 x 480 x 240 mm
Nominal output voltage	AC 230 / 400 V	Weight	40 kg
Output voltage range	186 Vac ~264 Vac	Protection grade	IP65
Nominal output current	7.2A	Cooling mode	Wind cooling
Maximum output current	8A	Other	
Frequency	50 Hz / 60 Hz	Display	LCD, LED
Power factor	> 0.95	Communication	RS485
Harmonic distortion	< 3 % (nominal power)	Authenticate	
Output connector	3-phase 4-wire (R, S, T, N,G)	Certificate	EN 61000-6-2 EN 61000-6-3 VDE AR-N-4105 IEC-62477-1
Conversion Efficiency			Maximum Efficiency

Grid-Connected Renewable Power Converter



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