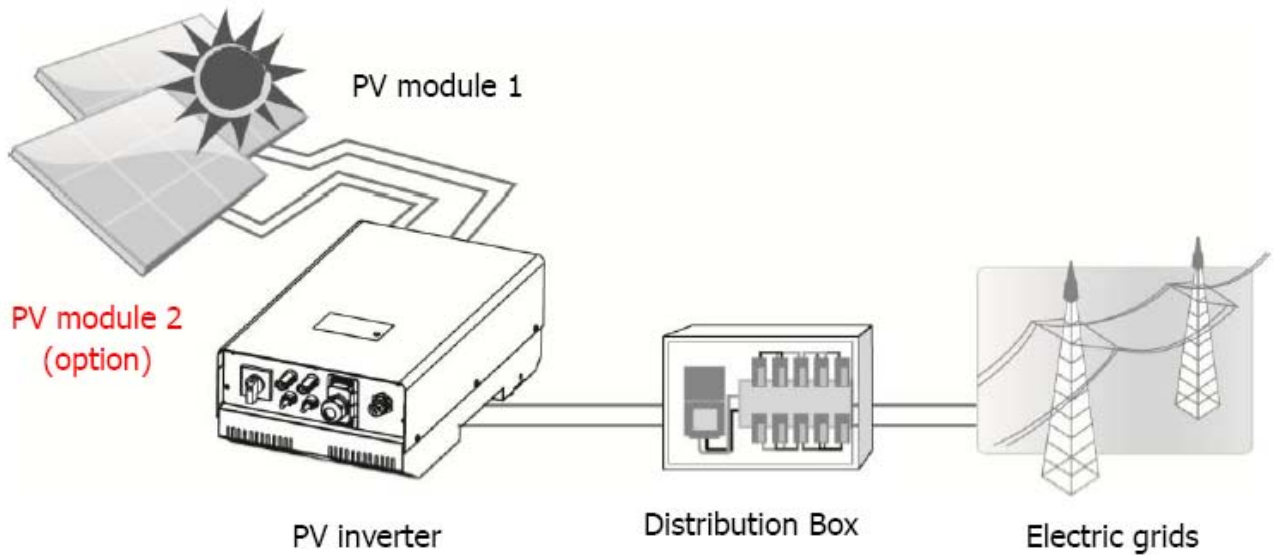


# EnerSolar 1.5KW/2KW /3KW/5KW On-Grid PV Inverter



- IP 65 design for outdoor applications
- Advanced DSP control
- Built-in one or two MPP trackers
- Built-in RS-232/USB communication port
- Free power monitoring software

This PV inverter is designed to convert solar electric (photovoltaic or PV) power into utility-grade electricity that can be sold to the local power company. This inverter is embedded with smart MPP tracker to allow the PV inverter to operate at optimum power output voltage.



## 12. Specifications

MODEL	PV Inverter 3KW	PV Inverter 5KW
<b>INPUT (DC)</b>		
Max. DC Power	3300 W	5000W
Maximum DC Voltage	500 VDC	
MPP Voltage Range	250 VDC ~ 500 VDC	180 VDC ~ 500 VDC
DC Nominal Voltage	370 VDC	
Start-up Voltage / Initial Feeding Voltage	125VDC / 150VDC	
Maximum Input Current	1 x 13 A	2 x 15 A
Number of MPP Trackers / Strings per MPP Tracker	1 / A: 1	2 / A: 1; B: 1
<b>OUTPUT (AC)</b>		
AC Nominal Power	3000 W	4600 W
Maximum AC Apparent Power	3000 VA	4600 VA
Nominal AC Voltage / Range**	230 VAC / 184 VAC ~ 264 VAC	
AC Grid Frequency	50 Hz / 60 Hz	
AC Grid Frequency Range**	47.5~ 51.5 Hz	
Nominal Output Current	13A	20 A
Power Factor @ > 50% load	> 0.99	
<b>EFFICIENCY</b>		
Maximum Efficiency @ Nominal Voltage	97.3%	97.3%
European Efficiency @ Nominal Voltage	96.4%	96.7%
<b>PROTECTION</b>		
DC Reverse-Polarity Protection	Yes	Yes
Ground Fault Monitoring	Yes	Yes
Grid Monitoring	Yes	Yes
AC Short Circuit Protection	Yes	Yes
Over Current Protection	30 A	50 A
Inrush Current	17 A / 1s	25 A / 1s
Maximum Output Fault Current	60 A / 10ms	100 A / 10ms
<b>PHYSICAL</b>		
Dimension, D X W X H (mm)	450 x 270 x 160	515 x 308 x 182
Net Weight (kgs)	15	20
<b>INTERACE</b>		
Intelligent Slot	USB & RS-232 card / Optional SNMP & Modbus card	
<b>ENVIRONMENT</b>		
Protection Degree	IP65/Pollution Degree III	
Humidity	0 ~ 100%	
Operating Temperature	-25°C to 60°C*	
Altitude	0 ~ 1000 m	

\* When temperature is above 80°C, the unit will de-rate according to the below formula:

$$P = P_{Rating} \times [110\% - (T - 80) \times 10\%]$$

\*\* The grid voltage and frequency range can be changed through SolarPower software. Please check software manual for the details. But it needs electric power carrier permission. Customers don't have authority to do so.