

# Solar Energy Supplier: On-grid Inverter with Energy Storage



ON-GRID INVERTER WITH ENERGY STORAGE



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Accepts dual AC inputs : Utility and Generator compatible
- Built-in emergent power supply port for emergent lighting or loads
- Multiple communication for USB, Modbus and SNMP
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units
- Enhance AC/Solar charger to 80A

## Hybrid Inverter Selection Guide

MODEL	Super 4KW
Phase	1-phase in / 1-phase out
Maximum PV Input Power	5000 W
Rated Output Power	4000 W
Maximum Charging Power	4000 W
<b>GRID-TIE OPERATION</b>	
<b>PV INPUT (DC)</b>	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 580 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	280 VDC ~ 500 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A
<b>GRID OUTPUT (AC)</b>	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Voltage Range	184-264.5 VAC*
Nominal Output Current	17.5 A
Power Factor	> 0.99
<b>EFFICIENCY</b>	
Maximum Conversion Efficiency (DC/AC)	96%
European Efficiency@ Vnominal	95%
<b>OFF-GRID OPERATION</b>	
<b>AC INPUT</b>	
AC Start-up Voltage / Auto Restart Voltage	120-140 VAC / 180 VAC
Acceptable Input Voltage Range	170-280 VAC
Maximum AC Input Current	40 A
<b>PV INPUT (DC)</b>	
Maximum DC Voltage	580 VDC
MPP Voltage Range	280 VDC ~ 500 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Waveform	Pure sinewave
Efficiency (DC to AC)	91%
<b>HYBRID OPERATION</b>	
<b>PV INPUT (DC)</b>	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 580 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	280 VDC ~ 500 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A
<b>GRID OUTPUT (AC)</b>	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Voltage Range	184-264.5 VAC*
Nominal Output Current	17.5 A
<b>AC INPUT</b>	
AC Start-up Voltage / Auto Restart Voltage	120-140 VAC / 180 VAC
Acceptable Input Voltage Range	170-280 VAC
Maximum AC Input Current	40A
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	202/208/220/230/240 VAC
Efficiency (DC to AC)	91%
<b>BATTERY &amp; CHARGER</b>	
Nominal DC Voltage	48 VDC
Maximum Charging Current	80 A
<b>GENERAL</b>	
<b>PHYSICAL</b>	
Dimension, D X W X H (mm)	117 x 438 x 535
Net Weight (kgs)	16.2
<b>INTERACE</b>	
Communication Port	USB/Dry contact
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available
<b>ENVIRONMENT</b>	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	0 to 40°C
Altitude	0 ~ 1000 m**

\*These 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.

