

H A G R I D

HYBRID GRID TIE & OFF-GRID INVERTER

5KW

- On-Grid Inverter with Energy Storage
- 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 grid-tie with backup
- Programmable multiple operations modes: Grid Tie, Off Grid, and Grid-Tie with backup
- Built-in Timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP

SPECIFICATION

PHASE	1-Phase in / 1-Phase out
RATED OUTPUT POWER	5000 W
MAXIMUM CHARGING POWER	4800 W

GRID-TIE OPERATION

PV INPUT (DC)

Maximum PV Input Power	10000 W
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	200 VDC / 250 VDC
MPP Voltage Range	250 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2/2 x 10.0A

GRID OUTPUT (AC)

Nominal Output Voltage	230 VAC
Output Voltage Range	184 - 265 VAC
Nominal Output Current	21 A
Power Factor	> 0.99

EFFICIENCY

Maximum Conversion Efficiency (DC/AC)	> 96%
European Efficiency @ Vnominal	> 95%

OFF-GRID OPERATION

AC INPUT

AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 - 280 VAC
Maximum AC Input Current	40A (Include Loads and Charging)

PV INPUT (DC)

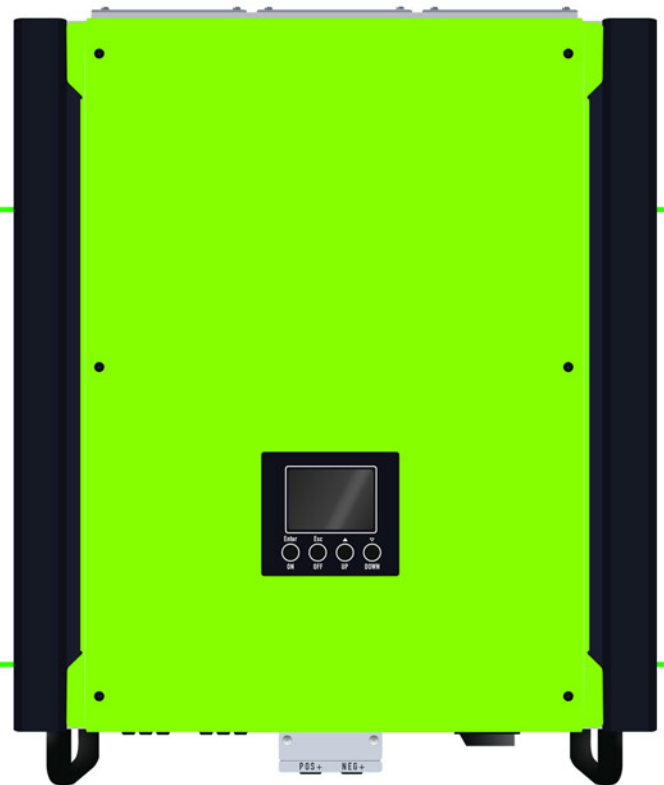
Maximum DC Voltage	900 VDC
MPP Voltage Range / Full Load MPP Voltage Range	350 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2/2 x 10.0A

BATTERY MODE OUTPUT (AC)

Nominal Output Voltage	230 VAC
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	91%

GENERAL

GENERAL		Environment	
Dimension, D x W x H (mm)	522 x 500 x 167.5	Humidity	0 ~ 90% RH (No Condensing)
Net Weight	40	Operating Temperature	-10 to 55 °C
Communication Port	RS-232/USB	Altitude	0 ~ 1000 m
Intelligent Slot	Optional SNMP, Modbus, and AS-400 cards available		



* This is a graphical representation of the product.

HYBRID OPERATION

PV INPUT (DC)

Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2/2 x 10.0A

GRID OUTPUT (AC)

Nominal Output Voltage	230 VAC
Output Voltage Range	184 - 265 VAC
Nominal Output Current	21A

AC INPUT

AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 - 280 VAC
Maximum AC Input Current	40A

BATTERY MODE OUTPUT (AC)

Nominal Output Voltage	230 VAC
Efficiency (DC to AC)	91%

BATTERY CHARGER

Nominal DC Voltage	48 VDC
Maximum Charging Current	Default 60A, 5A - 60A (Adjustable)

FOR ULTIMATE BACK UP SYSTEM

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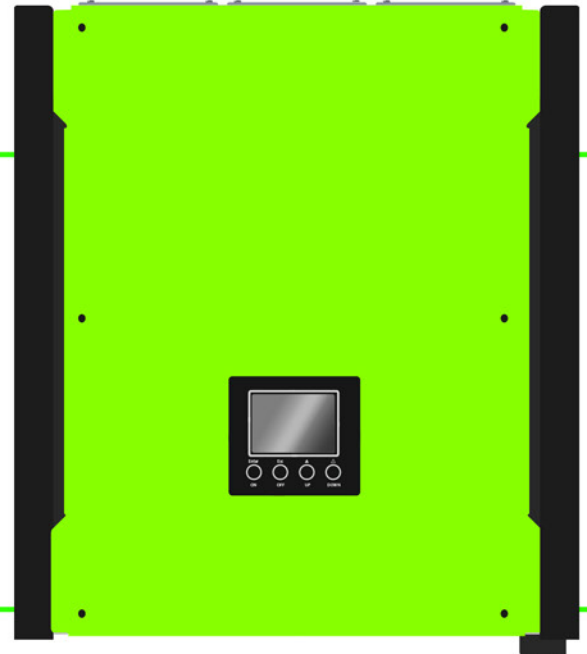


H A G R I D

HYBRID GRID TIE & OFF-GRID INVERTER

3KW+

- On-Grid Inverter with Energy Storage
- 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 grid-tie with backup
- Programmable multiple operations modes: Grid Tie, Off Grid, and Grid-Tie with backup
- Built-in Timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP



* These is a graphical representation of the product.

SPECIFICATION

PHASE	1-Phase in / 1-Phase out
RATED OUTPUT POWER	3000 W
MAXIMUM CHARGING POWER	1200 W

GRID-TIE OPERATION

PV INPUT (DC)	
Maximum PV Input Power	4500 W
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	250 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1/1 x 18 A

GRID OUTPUT (AC)	
Nominal Output Voltage	208/220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC
Nominal Output Current	13 A
Power Factor	> 0.99

EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	> 96%
European Efficiency @ Vnominal	> 95%

OFF-GRID OPERATION

AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 - 280 VAC
Maximum AC Input Current	30 A

PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range / Full Load MPP Voltage Range	250 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1/1 x 18 A

BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	93%

GENERAL		Environment	
Dimension, D x W x H (mm)	107 x 438 x 480	Humidity	0 ~ 90% RH (No Condensing)
Net Weight	15.5	Operating Temperature	0 to 40 °C
Communication Port	RS-232/USB	Altitude	0 ~ 1000 m
Intelligent Slot	Optional SNMP, Modbus, and AS-400 cards available		

HYBRID OPERATION

PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	250 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1/1 x 18 A

GRID OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC
Nominal Output Current	13 A

AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 - 280 VAC
Maximum AC Input Current	30 A

BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Efficiency (DC to AC)	93%

BATTERY CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	Default 25A, 5A - 25A (Adjustable)

FOR ULTIMATE BACK UP SYSTEM

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