

Hybrid Solar Inverter 3.5KW-5.5KW

Bonjour Solar Series 3.5~5.5KW 220V/230Vac Output

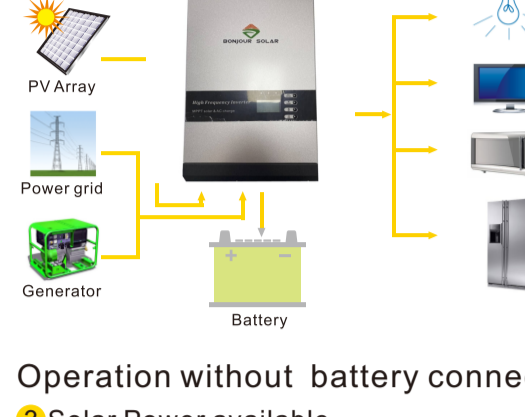


- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Built-in MPPT solar controller
- Battery equalization function to optimize battery performance and extend lifecycle
- Inverter running without battery
- Built-in anti-dusk kit for harsh environment
- parallel operation with up to 6 units

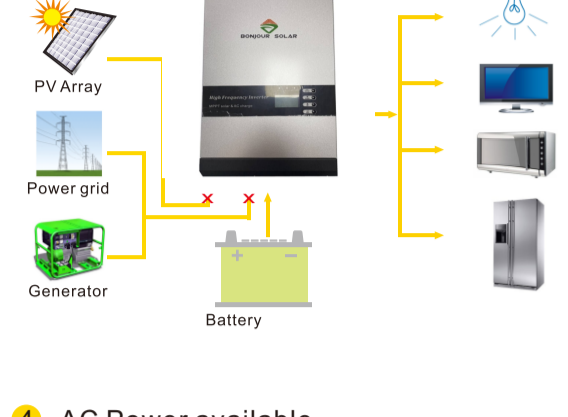
System Diagram

Operation with battery connected

1 Solar Power and AC Power available



2 Solar Power and AC Power not available

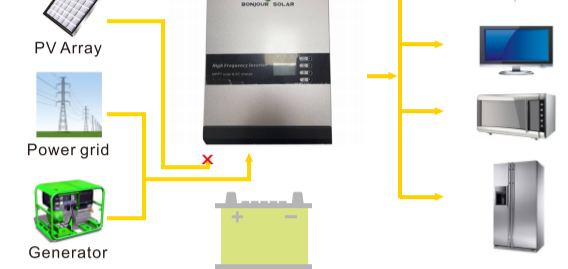


Operation without battery connected

3 Solar Power available

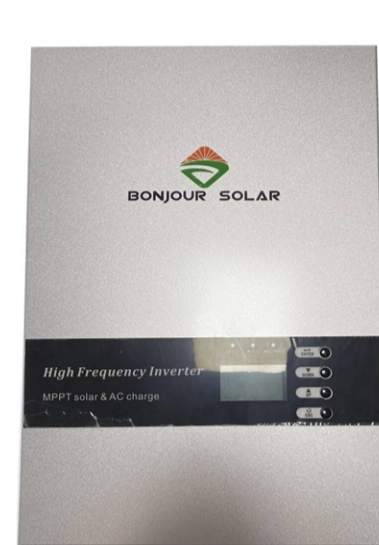


4 AC Power available



Features

- Rated power 1.5-5kw
- Battery Voltage 24VDC/48VDC
- MAX charging current 80A
- WIFI remote monitoring
- Multi Protection
- High frequency above 94% high efficiency
- Wide AC input 90-280V
- Lead-acid/Lithium Battery Optional



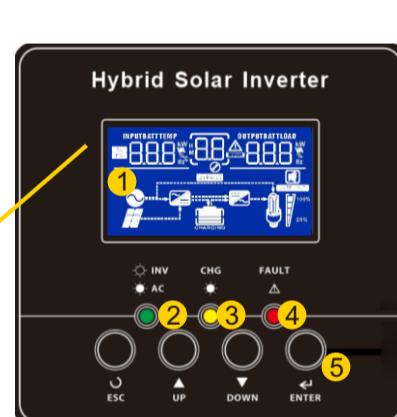
This is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Technical Data

Table 4 Inverter Mode specifications

Normal DC voltage	24V	48V
Waveform	Pure sine wave	
Output voltage range	230VAC±5%	
Output frequency	50/60Hz±1Hz	
Peak Efficiency	≥92%	
Power factor	1.0	
Overload protection	20s@101%~120% load, 10s@121%~150% load, 5s@≥150% load	
Transfer time	10ms typical (UPS) 20ms typical (APL)	
Protection features	Low voltage protection; High voltage protection Overload protection; Over-temperature protection Short circuit protection; Over-charge protection; Battery reverse protection	
Cold start voltage	23.0VDC	46.0VDC
Low voltage alarm(optional)	18.0-25.0VDC	36.0-50.0VDC
Low voltage alarm recovery	22.0VDC	44.0VDC
Low voltage shutdown(optional)	18.0-25.0VDC	36.0-50.0VDC
High voltage alarm recovery	30.0VDC	60.0VDC
Dimension(L*W*H)mm	503*302*120	
Net Weight (KG)	9.6	10.6
Gross Weight (KG)	10.6	11.6

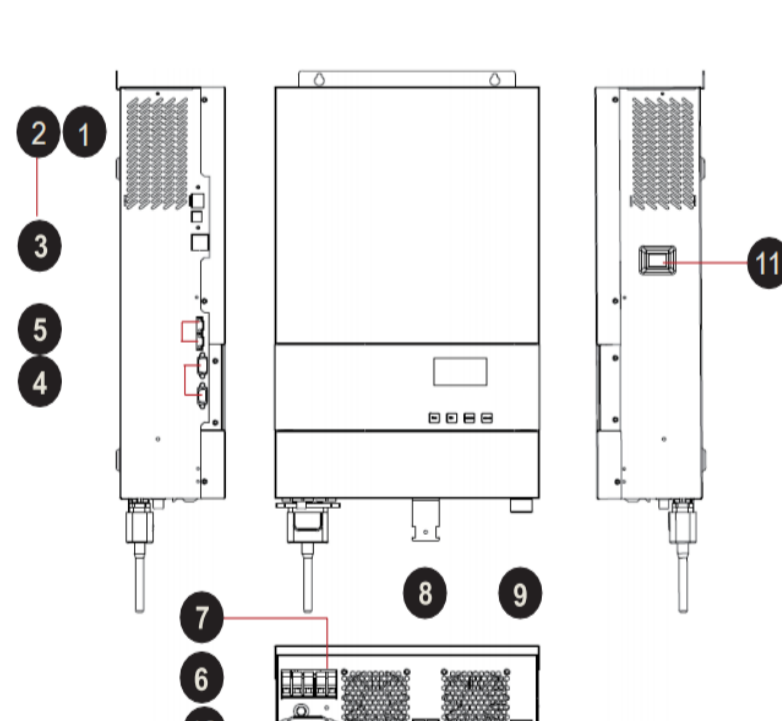
Products



1. LCD display
2. Status indicator
3. Charging indicator
4. Fault indicator
5. Function buttons

2.3 Product Overview

NOTE: The following picture is only a schematic diagram of the equipment. If the actual chassis does not conform to the schematic due to a structural upgrade, it is subject to prior notice.



- 1: RS232/RS485/CAN port
- 2: USB port
- 3: Generator dry contact
- 4: Parallel port
- 5: Current sharing port
- 6: AC input
- 7: AC output
- 8: Battery input
- 9: PV input
- 10: WIFI port
- 11: Power on/off switch

Communication port definition:

RS232	1:RXD, 2:TXD, 8:GND
RS485	6:485-B, 7:485-A
CAN	3: CAN-H, 5: CAN-L



OFF-GRID SOLAR INVERTER	
IMHV5548 PLUS 5500W	
Inverter Mode	
Rated Power	5500VA / 5500W
DC Input	48VDC, 131A
AC Output	230VAC, 50/60Hz, 24A
AC Charger Mode	
DC Input	230VAC, 50/60Hz, 42.8A
AC Output	54VDC
Max. 80A	Default 30A
AC Output	230VAC, 50/60Hz, 24A
Solar Charger Mode	
Max PVArray Power	5500W
Nominal Voltage	360V
Min.Solar Voltage	120V
Max.Solar Voltage	450V
Environment	
Temperature	-10 ~ 55°C
Protective Class	I
Ingress Protection	IP41
<ul style="list-style-type: none"> • Read manual before installing • Wait at least 5 minutes-after power off before proceeding • AC connection Must be grounded before operation. • Don't connect PV panels with the ground. 	
Guangzhou Bonjour Solar Technology Co., Ltd	

7. SPECIFICATIONS

Table 1 Solar Mode specifications

MODEL	3KW24VDC	3.5KW24VDC	5.5KW48VDC
Rated output power	3000W	3500W	5500W
PV Input Max Power	5500W		
PV operating voltage range	120-450VDC		
PV normal operating voltage	280-360VDC		
Normal output voltage	230VAC		
Output voltage range	230 ±5 % VAC		
Normal output current	13A	15A	24A
Efficiency(DC/AC)	≥92%		
Frequency	50/60Hz		
Overload protection	MPPT will close immediately as long as the input power is greater than the maximum output power		
PV Max input current	20A		

