

# Hybrid inverter

MODEL: BH500A



## Product Description

1. No battery function available ( optional ) ,Hybird inverter running with or without batteries.
2. Pure sine wave solar inverter.
3. Built-in 150A MPPT ( Max PV 5000W) solar charger.
4. SBU Mode supports Utility Power, Battery and PV power complement.
5. High PV input range from 120V-450Vdc.
6. Smart battery charger design to optimize battery performance .
7. Configurable AC / Battery input priority via LCD setting .
8. Auto restart while PV is recovering .
9. Over-load , over temperature and output short circuit protection.
- 10.Communication with RS232/RS485.
- 11.Cold restart function.
- 12.Restore factory default Settings via one click.



Pure Sine Wave

**MPPT**

150A MPPT  
solar charger



SBU Mode



High PV input



LCD setting



Multiple Protections



RS232/RS485  
Communication



Cold restart

# BH500A

## HYBRID INVERTER



## Production Parameters

### MODEL

### BH500A

|             |       |
|-------------|-------|
| Rated Power | 5000W |
|-------------|-------|

### INPUT

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Voltage                  | 230VAC                                                               |
| Selectable Voltage Range | 170-265VAC(for personal computers)<br>90-265VAC(for home appliances) |
| Frequency Range          | 50Hz/60Hz(Auto sensing)                                              |

### OUTPUT

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| AC Voltage Regulation(Batt.Mode) | 230VAC $\pm$ 5%                                           |
| Surge power                      | 2* rated power for 5 seconds                              |
| Efficiency(peak)PV to INV        | 97%                                                       |
| Efficiency(peak)BAT to INV       | 94%                                                       |
| Transfer Time                    | 10ms(for personal computers)<br>20ms(for home appliances) |
| Wave form                        | Pure Sine Wave                                            |

### BATTERY & AC CHARGER

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Battery Voltage         | 48VDC                                              |
| Bulk Charging Voltage   | Flooded Battery 58.4VDC<br>AGM/GEL Battery 56.4VDC |
| Floating Charge Voltage | 54VDC                                              |
| Overcharge Protection   | 63VDC                                              |
| Maximum charge current  | 110A                                               |

### SOLAR CHARGER

|                                       |            |
|---------------------------------------|------------|
| MAX.PV Array Power                    | 5000W      |
| MPPT Range @ Operating Voltage        | 120-450VDC |
| Maximum PV Array Open Circuit Voltage | 450VDC     |
| Maximum Charging Current              | 150A 130A  |
| Maximum Efficiency                    | 99%        |

### GENERAL

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Dimension(D*W*H)        | 454*254*95mm                                  |
| Net Weight              | 7.5kg                                         |
| Communication Interface | RS485/RS232(Standard)<br>LCD remote(Optional) |
| Humidity                | 5% to 95% Relative Humidity(Non-condensing)   |
| Operating Temperature   | 0°C to 55°C                                   |
| Storage Temperature     | -15°C to 60°C                                 |