

## PS Solar Inverter

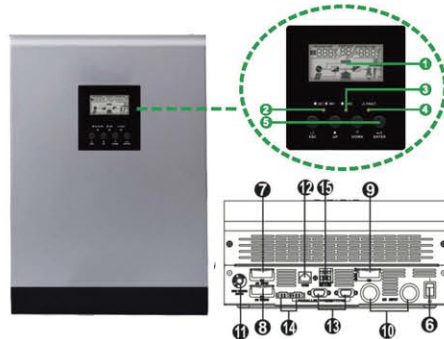


### Features:

- Pure sine wave inverter
- Built-in PWM solar charge controller
- Selectable input voltage and frequency range
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel operation up to 6 inverters for 4kva/5kva inverter
- Connecting 3-6 pcs together can get 3 phase 380vac system



### LCD Display Information

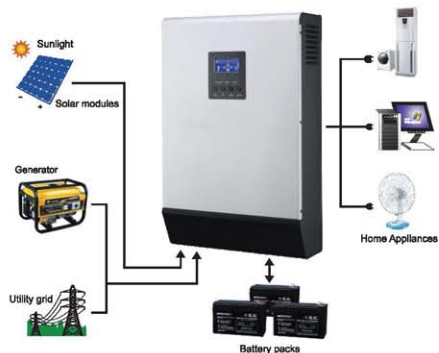


1. LCD display
2. Status indicator
3. Charging indicator
4. Fault indicator
5. Function buttons
6. Power on/off switch
7. AC input
8. AC output
9. PV input
10. Battery input
11. Circuit breaker
12. RS232 communication port
13. Parallel communication cable (only for parallel model)
14. Current sharing cable (only for parallel model)
15. Dry contact
16. USB communication port

### Introduction:

Equipped with PWM solar charge controller to maximize and regulate DC power from the solar array for the charging the battery bank. Transformer-less design provides reliable power conversion in compact size and with high efficiency. With aluminum housing, integrated interface system, it's light and handy, making installation easier. It's the ideal inverters for small PV plants, or individually for small houses, both indoors and outdoors.

### Solar System Connection



### PS Inverter Selection Guide

| MODEL                                 | PS 1K  | PS 3K        | PS 5K        |
|---------------------------------------|--|--------------|--------------|
| Rated Power                           | 1000VA/800W  | 3000VA/2400W | 5000VA/4000W |
| <b>INPUT</b>                          |  |              |              |
| Voltage                               | 230 VAC  |              |              |
| Selectable Voltage Range              | 170-280 VAC (For Personal Computers)<br>90-280 VAC (For Home Appliances) |              |              |
| Frequency Range                       | 50 Hz/60 Hz (Auto sensing)   |              |              |
| <b>OUTPUT</b>                         |  |              |              |
| AC Voltage Regulation (Batt. Mode)    | 230VAC ± 5%  |              |              |
| Surge Power                           | 2000VA   | 6000VA       | 10000VA      |
| Efficiency(Peak)                      | 90%  | 93%          |              |
| Transfer Time                         | 10 ms (For Personal Computers)<br>20 ms (For Home Appliances)            |              |              |
| Waveform                              | Pure sine wave   |              |              |
| <b>BATTERY &amp; AC CHARGER</b>       |  |              |              |
| Battery Voltage                       | 12 VDC   | 24 VDC       | 48 VDC       |
| Floating Charge Voltage               | 13.5 VDC   | 27 VDC       | 54 VDC       |
| Overcharge Protection                 | 15 VDC   | 30 VDC       | 60 VDC       |
| Maximum Charge Current                | 10A or 20 A  | 20A or 30 A  | 20A or 30 A  |
| <b>SOLAR CHARGER(OPTION)</b>          |  |              |              |
| Charging Current                      | 50A  |              |              |
| Maximum PV Array Open Circuit Voltage | 50 VDC   | 60 VDC       | 105 VDC      |
| Standby Power Consumption             | 1 W  | 2 W          | 2 W          |
| <b>PHYSICAL</b>                       |  |              |              |
| Dimension, D x W x H (mm)             | 305*300*110  | 305*272*100  | 413*295*120  |
| Net Weight (kgs)                      | 4.5  | 6.9          | 9.8          |
| <b>OPERATING ENVIRONMENT</b>          |  |              |              |
| Humidity                              | 5% to 95% Relative Humidity(Non-condensing)                              |              |              |
| Operating Temperature                 | 0° C - 55° C   |              |              |
| Storage Temperature                   | -15° C - 60° C   |              |              |

\*Typical transfer time for parallel operation is 30ms.  
Product specifications are subject to change without further notice.