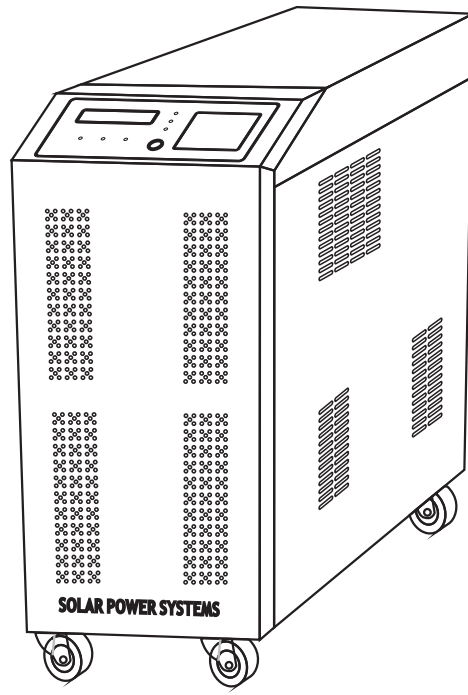
# User Manual




## SOLAR INVERTER

# Catalogue

# Transportation & Storage

## Transportation

**Please check if any damage of the package after receiving goods. If less quantity, Please notify the distributor within 7 days after goods arrived.**

## Open Package

Be cautious when opening package, Confirm the machine is complete with relating parts and without damage.

## Storage

Machine should be stored in the clean, dry（0℃-35℃）environment.

## Transportation

Machine must keep stand and transported cautiously, any fall or strong shock may spoil machine.

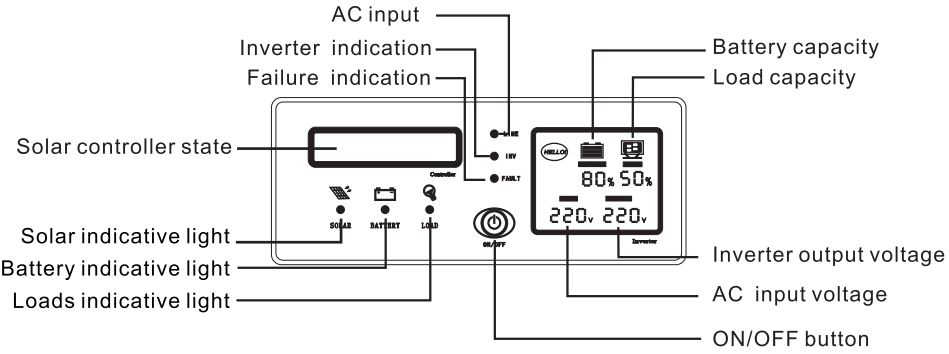
## Product Introduction

The product is designed for power suppling of net system.it uses digital design idea,intelligent sine wave output and adapts to all kinds of loads ;The design of excellent output short-circuit protection which can resist impact of large current starting loads.The design of one-touch intelligent swihch.Is easily cinduct.It is widely used in household electric equipment.Communication equipment.And single-phase power equipment,industrial equipment,Ets.

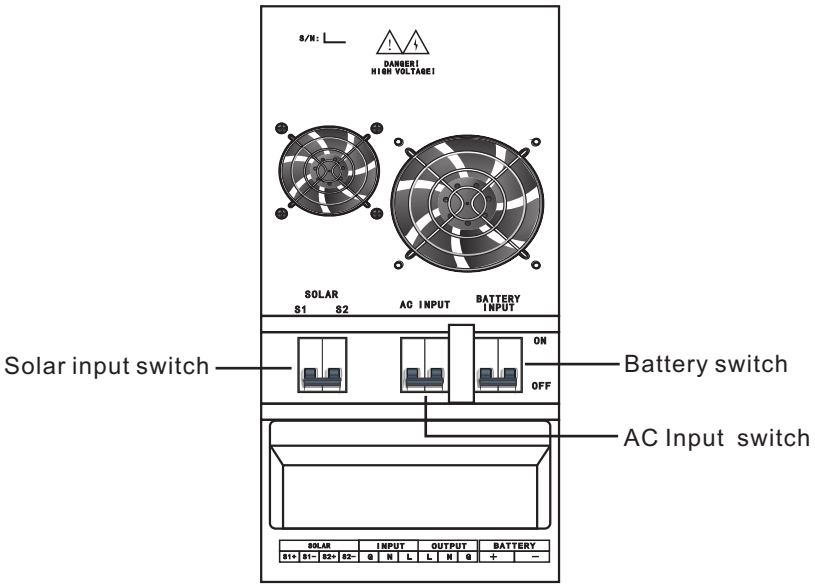
## Characteristics

- MCU intelligent control，excellent performance；
- Adopt power frequency transformer, pure sine wave AC out put, strong capacity of different loads；
- Exce lent Design For Short-Circuit Protection, Work Reliably；
- Simple LED display shows working status clearly；
- Intelligent charge control can extend the life span of the battery；
- Full-Oriented Protection, Safe And Reliable；
- Adapt to wide range of temperature and high altitude；

## Panel display instruction




## Wire connection instruction of back pane



## Notice

⚠ **Warm:installation should be executed by qualified technicians according to the local related safety standard.**

- This product is suitable for the solar modules with same voltage grade and power to charge battery. Do notAllow terminal solar input to connect with other types of charge power, or else the controller will be damaged.
- Inverter DC output does not allow access to motor type loads, and load current is less than rated current.
- The top and surrounding of the controller should have 2.5CM space for air circulation.

## Installation and start-up

- Solar components connection:press the "SOLAR SWITCH" of rear panel then the "BATTERY" lamp is lighting,;The voltage and power of solar components should inside the range of charger input. The components positive connect the terminal "S+" ,then the negative connect the tenninal "S-" .The "SOLAR" lamp is lighting indicates that the solar components input is normal;When the inverter has no use for a long time and solar components have no recharging its battenes,turn down the "SOLAR SWITCH" to reduce the dissipation of batteries.
- AC loads connection:press the "ON/OFF" for three seconds,When hear the sound of buzzer release.inver running boot then the pointer of AC output voltage on the panel direct current output voltage of inverter.To ensure the power of AC loads inside the range of inverter tate power and loads plug connect the "OUTPUT" of panel;The indicating gauge of battery voltage direct its current voltage.

## Suggested Wire Diameter Of Connected Cable

**Wire Diameter Of Cable（mm）=Single Circuit Rated Current（A）/(6A/mm )**

1 ) PVC insulated copper core wire ( @70℃ ) .
2 ) Temperature is lower than 40℃.
3 ) If the above conditions can not be reached, please use strong cables.

## Installation & Operation

- “INV” lamp oniverter mode
- “LINE” lamp oninverter works at utility power mode
- “FAULT” lamp onOverload, inverter will shut down automatically when switching to battery for power supply , no output , or inverter failure , output short circuit
- “BATTERY” indicative light is green/rad. Green light is on means voltage of battery is normal.Rad light is on means under voltage,users suggested to cut off electricity supply for loads in order to protect battery.Green/rad light flashes means over charge protection of battery.
- “SOLAR” indicative light is green, the light is on means the solar modules work normally.
- “LOAD” indicative light Is yellow. Yellow light is on means DC output is normal.Yellow light is off means low voltage of battery and cut off output automatically.

## Treatment Of Simple Faults

| Faults | Possible reasons | Solution |
|---|---|---|
| "BATTERY" indicative light off | Incorrect connection of battery | Check the connection of battery and correct |
| | Charge fault | Please contact with distributor |
| "BATTERY" red indicator stkll lighting | The terminal voltage of batteries are lower than the protective voltage | Suggest users cut off the loads to protect the battery. When the voltage recover,indicative light is off and work with loads normally |
| The indicative light "FAULT" is on, alarm bell,no output | Machine output short-circuit | Switch off machine,remove all loads and confirm if any fault or short-circuit . |
| | Output overload of equipment | Check loads of the equipment and remove the unnecessary loads |
| "DC OUTPUT" no output | DC loads output insurance is bad | Replace the same fuse |
| Equipment start abnormally | Connection between battery and machine is not good | Check the connection and confirm it is good |
| | Inside fusing of fuse indicates inner fault | Do Not Try To Repair, Must Contact With Customer Service Representative |
| Shorter discharging time of machine with loads | Insufficient power of battery | Make sure battery charged normally above 8 hours |
| | Machine with over loads | Remove Unimportant Loads |
| | Can not charge full because of battery aging | Please contact with customer service representativefor changing battery parts |

When you contact with customer service representative,Please provide the following information:

- ☆ Write the model no., Series number and purchasing date.
- ☆ Complete faults description ( e.g. types of loads, Indicative lights of panel, Faults frequency and relating information.)