

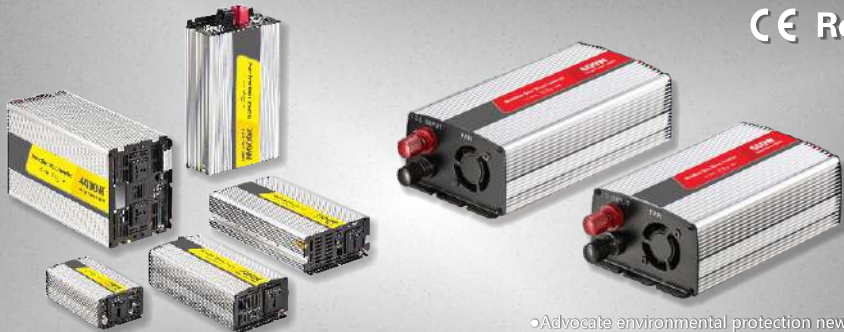
Disclaimer: There is a certain difference between the size of the picture of this product and the actual product, Please refer to the actual product; The company's products are constantly being updated, If you need to know more, please contact the company



Do not disassemble the inverter without permission!

# Inverter Series User Manual

CE RoHS



•Advocate environmental protection new energy

Please Read **Manual**  
Carefully before use

MSW

PSW



USA



UNIVERSAL



EU+JP+USA



SOUTH AFRICA



UK



AUSTRALIA



FRANCE



EU+GERMANY



FRANCE+GERMANYL



AUSTRALIA



USA



UNIVERSAL



EU



SOUTH AFRICA



UK



ITALY

# Preface

Thank you for purchasing our Power Inverter series.

**This manual provides:** Usage and installation methods, fault diagnosis and troubleshooting and other related matters. To ensure users can install and operate inverter correctly, please read the user manual carefully before using this product.

**Please confirm before packing:** If the product is damaged; if the rated power in label is consistent with your order requirements.

**Packing list:** one instruction manual; red and black wiring; fuse.

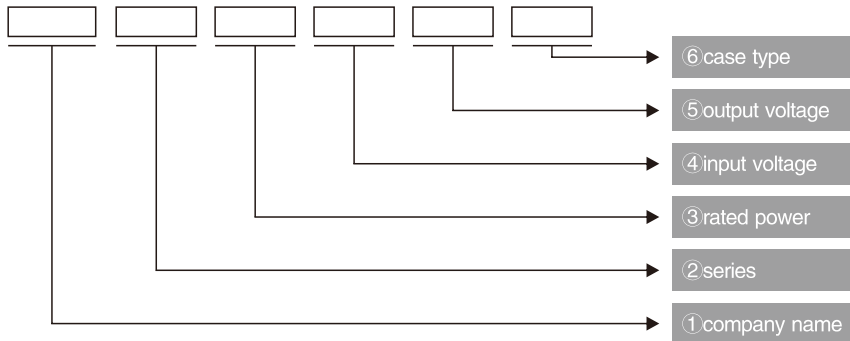
# Contents

1. Model and its meaning .....	01
2. Safety instructions .....	02
3. Product features and applications .....	04
4. Use environment and operation guide .....	05
5. Inverter icon and connection .....	06
6. Common faults and troubleshooting methods .....	13
7. Inverter specifications .....	15



Remarks: Please choose according to the actual product, the relevant information is for reference only.

## Model and its meaning



For example: JYP1000W12V220V C: ① company name; ② pure sine wave Inverter; ③ 1000W; ④ 12V input voltage; ⑤ 220V output voltage; ⑥ type C. For example: JYM1000W12V220V C: ① company name; ② modified sine wave Inverter; ③ 1000W; ④ 12V input voltage; ⑤ 220V output voltage; ⑥ type C. P: Pure sine wave inverter, M: modified wave inverter.

## Safety instructions

Warning! Please read the safety instructions carefully when installing and using inverter.

2-1 In order to reduce risks, please do not expose inverter to harsh environments such as rain, snow, frost, fog, greasy and a lot of dust during installation. Do not install the inverter in a sealed place, and do not cover or block the ventilation.

2-2 The inverter should avoid places with fire, electric shocks, wires that do not meet the standard specifications.

2-3 Because the inverter contains components that are prone to arcing, it cannot be installed in a flammable and explosive environment.

2-4 When connecting battery, if the acidic substance of the battery comes in contact with the skin or clothing, please wash with clean water and soapy water immediately. If the acidic substance enters the eyes, please wash the eyes with clean water for at least 20 minutes, and go to hospital for treatment immediately.

## **Safety instructions**

2-5 Please do not put metal tools on the battery, the battery or inverter components may be damaged due to sparks caused by the short circuit.

2-6 It is forbidden to put small metal objects such as iron needles and iron pins into the product. Keep it away from water.

2-7 Children are forbidden to operate this product, and do not touch the terminal, output socket, fan etc. with your fingers in case of injury and electric shock.



## Product features and applications

3-1 Pure sine wave and modified sine wave

3-2 High efficiency, light in weight

3-3 LED indicates the status of the load

3-4 Fully automatic control of refrigeration fan (load)

3-5 Microprocessor design

3-6 Soft start, maintain battery life effectively

3-7 Low voltage 1 Overload/ Short circuit 1 Over voltage 1 Over temperature alarm system

3-8 Product applications

Power tools series: electric saw, drilling machine, grinder, sand blast machine, punching machine, weeding machine, air compressor etc.

Office equipment series: computers, printers, monitors, copiers, scanners, etc.

Household appliances series: vacuum cleaners, electric fans, fluorescent lamp, incandescent lamps, electric cutting knives, sewing machines, etc.

Kitchen appliances series: microwave ovens, refrigerators, freezers, coffee machines, blenders, ice machines, ovens etc. Industrial equipment series: metal halide lamp, high-pressure lamp, ship cutting, solar energy, wind power generation, etc.

Electronic field series: TV sets, video recorders, game consoles, radios, power amplifiers, music equipment, monitoring equipment, terminal equipment, server, intelligent platform, satellite communication equipment, etc.

## Use environment and operation guide

Operation guide: Warning! There is high voltage inside the product, pay attention to safety. Non-professionals are strictly forbidden to disassemble or modify without permission, and the company will not be responsible for any violation. Please follow the instructions below.

4-1 Battery selection: Please use lead-acid batteries, the input voltage is 12V/24V/48V. Such as a 12V/300W inverter, please choose battery capacity above 30AH. For a 12V/1000W inverter, please choose capacity above 100AH, and so on. If lithium batteries, you need to inform us in advance, we will adjust the parameters according to the characteristics of your lithium batteries.

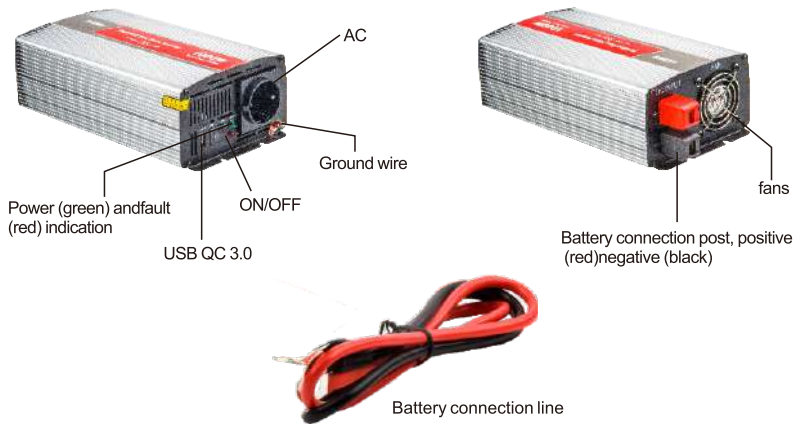
4-2 Connect appliances with inverter: ensure that the loading power is within inverter power, the power cannot exceed the maximum power of inverter when started.

4-3 Low voltage protection: When battery voltage is too low, the indicator will sound an alarm, indicating that the DC supply voltage has been reduced and the battery needs to be recharged. For example: when 12V inverter's input voltage is lower than  $10V+0.5V$ , when 24V inverter's input voltage is lower than  $20V+0.5V$ , Or 48V inverter's input voltage is lower than  $40V+0.5V$ . The AC output will first alarm and then turn off, and the indicator light will turn red.

4-4 Over voltage protection: when battery voltage is too high, the indicator will sound an alarm, indicating that the input DC voltage is too high, and the battery needs to be discharged as soon as possible. Such as 12V type, the input voltage reaches  $15V \pm 0.5V$ ; 24V inverter, the input voltage reaches  $30V+0.5V$ ; Or 48V type, the input voltage reaches  $60V+0.5V$  and the warning light will turn red, the AC output device will be turned off at the same time.

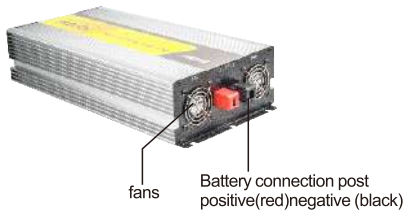
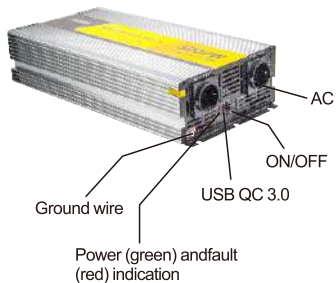
## Inverter icon and connection

- Pure sine wave/ modified sine wave 800W-1000W



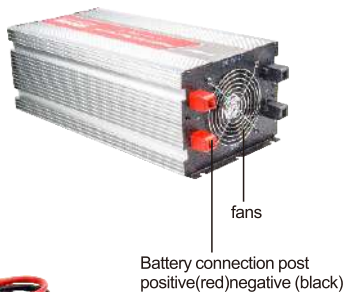
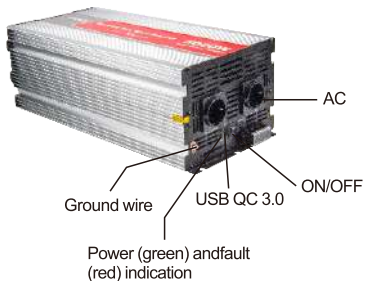
# Inverter icon and connection

- Pure sine wave/ modified sine wave 2000W-3000W



## Inverter icon and connection

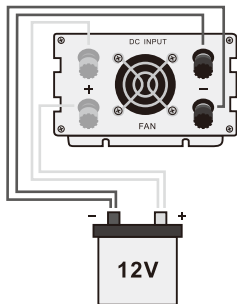
- Pure sine wave/ modified sine wave 4000W–6000W



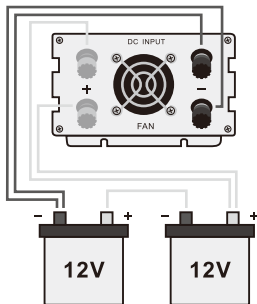
Battery connection line

# Wiring diagram

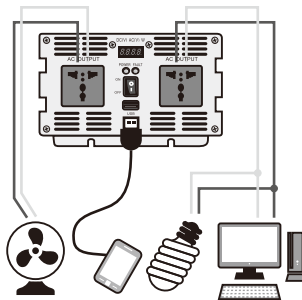
12V inverter connection



24V inverter connection



Output terminal connection method



Tip: 48V inverter and 24V connection are the same, connect the batteries in series.

## Common fault and eliminating methods

Fault	Possible reason	Recommended solution
The inverter does not work during the initial power-up	The battery is not connected properly. The connection on the battery side is loose. The battery voltage is too low	Check the battery and wire connections. Check the DC fuse. Charge the battery.
The buzzer sounds and the red light flashes continuously for 1 second. Such as: Bi... Bi... Bi...	The voltage on the DC input terminal reaches the set point of the low battery alarm: 10.5V±0.5V (M-12V version) 21V±1V (M-24V version) 42V±2V (M-48V version) 10.8±0.2VDC (P-12V version) 21.6±0.4VDC (P-24V version) 43.2±0.8VDC (P-48V version)	<ol style="list-style-type: none"> <li>1. Check whether the battery power is sufficient, if it is lower than the previous worksheet. Please charge as soon as possible.</li> <li>2. Check whether the battery wire is thick enough to carry the required current within the required length. If necessary, thicker wires can be used.</li> <li>3. Tighten the connection of the battery input circuit.</li> </ol>
The buzzer sounds and the red light flashes continuously for 2 times for 1S. Such as: BiBi... BiBi... BiBi...	The voltage on the DC input terminal reaches the set point of overvoltage protection: 15V±0.5V (M-12V version) 30V±1V (M-24V version) 60V±2V (M-48V version) 15.5±0.2VDC (P-12V version) 31±0.4VDC (P-24V version) 62±0.8VDC (P-48V version)	<ol style="list-style-type: none"> <li>1. Check whether the voltage on the DC input terminal is greater than 15V / 30V / 60V DC.</li> </ol>

## Common fault and eliminating methods

Fault	Possible reason	Recommended solution
<p>The buzzer sounds and the red light flashes continuously for 3 times for 1S. Such as: BiBiBi... BiBiBi.... BiBiBi...</p>	<p>The system is overheating</p>	<p>1.1. Check whether the fan is working normally. Otherwise, the fan/fan control circuit may be faulty, please call technical support. 2.2. If the fan is working, please check whether the ventilation slots and vents on the suction side are on the vents. The air outlet of the fan cannot be blocked. 3.3. If the fan is working normally and the window is not blocked, please check if there is enough cold spare air. Also check whether the ambient temperature is below 45°C. 4.4. Reduce the load to reduce the heating effect. After eliminating the cause of overheating and cooling, it will automatically reset.</p>
<p>The buzzer sounds and the red light flashes continuously Such as: BiBiBiBiBiBi BiBiBi</p>	<p>This machine is overload protection</p>	<p>1. Disconnect the load. 2. Reduce the load. 3. Whether the output is short-circuited.</p>
<p>Inverter working indicator is normal and no AC output</p>	<p>It may be damaged by transportation jitter. User connection error, etc.</p>	<p>1. Check whether the device connection is normal. 2. Whether there is any abnormal noise inside the product. 3. Call technical support.</p>



## Datasheet

◆ Inverter output current form: modified sine wave/pure sine wave

Model	1000	1500	2000	2500	3000
Rated power	1000W	1500W	2000W	2500W	3000W
Peak power	2000W	3000W	4000W	5000W	6000W
Output rate	AC 110V $\pm$ 10%				
	AC 220V/230V $\pm$ 10%				
DC input	12/24/48V	12/24/48V	12/24/48V	12/24/48V	12/24/48V

## Datasheet

◆ Inverter output current form: modified sine wave/pure sine wave

Model	4000	5000	6000
Rated power	4000W	5000W	6000W
Peak power	8000W	10000W	12000W
Output rate	AC 110V $\pm$ 10%		
	AC 220V/230V $\pm$ 10%		
DC input	12/24/48V (24V/48V Recommended)	12/24/48V (24V/48V Recommended)	12/24/48V (24V/48V Recommended)