


Product detail parameters

Rated Power	300W	500W	600W	800W	1000W	1200W	1500W
Peak Power	600W	1000W	1200W	1600W	2000W	2400W	3000W
Frequency	50Hz / 60Hz (Optional)						
Wave From	Pure Sine Wave						
Input Voltage	12V / 24V / 48V (Optional)						
Output Voltage	110V / 120V / 220V / 230V / 240V(Optional)						
Efficiency	≥90%						
Battery type	Lead acid battery						
5V	Optional						
Colling Mode	Smart fan (Automatic startup of high temperature and load)						
Charge Protection	Input high voltage protection, input low voltage protection, short circuit protection, high temperature protection, overload protection						
Working Temperature	0-40℃						
Working Humidity	20-90%RH						

Rated Power	2000W	3000W	4000W	5000W	6000W	8000W	10000W
Peak Power	4000W	6000W	800W	10000W	12000W	16000W	20000W
Frequency	50Hz / 60Hz (Optional)						
Wave From	Pure Sine Wave						
Input Voltage	12V / 24V / 48V (Optional)						
Output Voltage	110V / 120V / 220V / 230V / 240V(Optional)						
Efficiency	≥90%						
Battery type	Lead acid battery						
5V	Optional						
Colling Mode	Smart fan (Automatic startup of high temperature and load)						
Charge Protection	Input high voltage protection, input low voltage protection, short circuit protection, high temperature protection, overload protection						
Working Temperature	0-40℃						
Working Humidity	20-90%RH						

This series of Pure sine wave inverter is suitable for:

Various kinds of household appliances, lighting electricity, IT electronics products, office equipment, Power tools, on-board appliances, outdoor emergency power supply, etc. The power of the electrical equipment exceeds the output power of the inverter and some start-up current of large power equipment may not be driven.



WARNING

To avoid harm to you and others, here are some of the following security considerations. Be sure to follow the meanings of the various flags. See the following.

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Inflammable gas
●When connected to a battery, sparks are produced. Make sure there is no flammable gas before connecting.
●The battery will produce flammable gas when charging and discharging. It should be well ventilated and should not be stored in other places where it is flammable
- 

No parallel with city power
The output can not be paralleled with the power supply, it will damage the inverter and cause the danger of electric shock.
- 

Minors are prohibited from using them
Can not be used by minors, inverter output is high voltage, may lead to electric shock risk.
- 

No disassembly or assembly
Do not disassemble or modify the inverter without permission. Unauthorized removal or modification of the inverter may result in a safety accident such as a malfunction, fire or electric shock.
- 

Bar contacts are prohibited
Do not place bars or other metal objects at the opening or socket of the inverter. This may touch the internal parts and cause electric shock and inverter damage
- 

Wet hands, do not touch
Do not touch the body and plug with wet hands, which may cause electric shock and personal safety
- 

Keep away from fire and high temperatures
Fire and explosion can occur in inverter and battery when running in flame and high temperature region.
- 

No throwing
Bumping the inverter can cause damage and other safety hazards.
- 

Medical equipment disabled
This inverter has not been tested and can not be used in medical equipment
- 

Please connect the ground wire.
In order to ensure the safety of use, please connect the ground wire.
- 

Moisture proof and waterproof
Please pay attention to moisture proof and waterproof. The inverter may cause short circuit, fire and electric shock due to humidity or water inflow.
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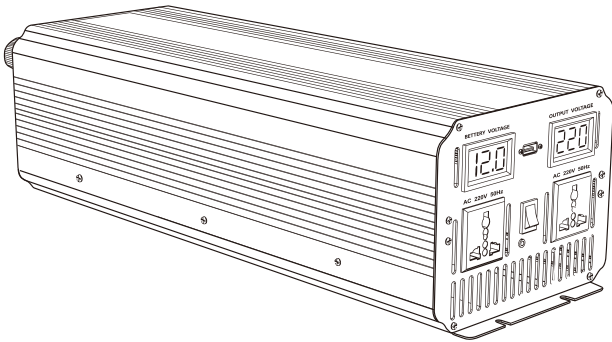
Please insert completely
Please insert the load device plug into the inverter socket completely. If the plug is fully inserted at the end, it may lead to electric shock and overheating, and even cause a fire accident. Do not use damaged plugs, power outlets, electrical wires.

Product characteristics

- Our company's pure sine wave series inverter has perfect protection circuit, provide high temperature protection, overpressure protection, low voltage protection, short circuit protection, overload protection and other functions to prevent damage to your inverter;
- Advanced circuit design, high conversion efficiency, rich interface, stable output voltage;
- The inverter is made of metal shell, which has reasonable design and good heat dissipation performance;
- The inverter has advanced anti-jamming technology, fully functional protection circuit, soft start circuit and convenient operation mode.
- The soft start circuit increases the output voltage step by step at startup in order to eliminate cold start failure, and also has the instantaneous drop of the output voltage and the quick recovery function, which reduces load on startup instantly overload.

Pure Sine Wave Inverter Manual

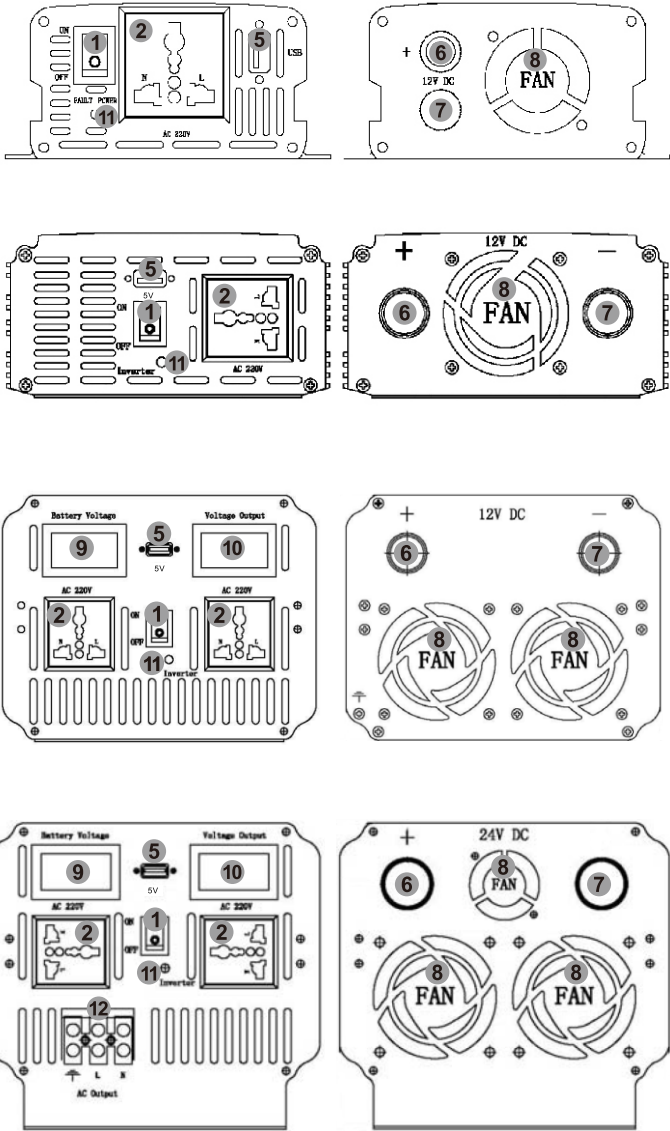
300W / 500W / 600W / 800W
1000W / 1200W / 1500W / 2000W
3000W / 4000W / 5000W
6000W / 8000W / 10000W



To ensure reliable service, the inverter must be used properly. Please read the instruction manual before use. Particular attention should be paid to the warning and attention of this brochure. Caution for certain conditions and practices that may cause damage to the inverter. Make clear warning statements about certain conditions and practices that may cause bodily harm. Please read all instructions before using the inverter.

Please read this instruction manual carefully so that it can be used correctly. Remember to read the "safety precautions" section before you use it to make sure it's safe to use. After reading the instructions, please complete the warranty card for safekeeping, to keep on for reference.

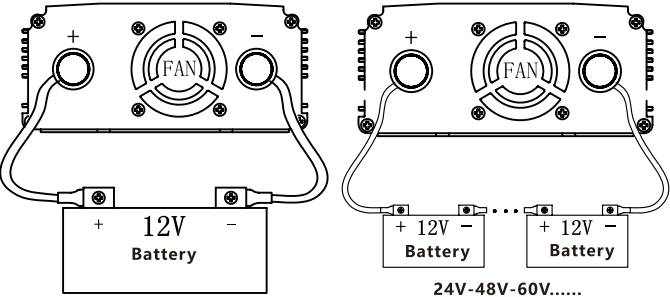
Pure sine wave inverter front and rear panel diagram



- 1、Power switch
2、AC output socket
3、Power indicator
4、Status indicator
5、5V Interface
6、Positive (red)
- 7、Negative (black)
8、Cooling fan
9、Voltage input monitor
10、Voltage output monitor
11、Double color status indicator
12、AC output interface

The product panel is for reference only.Please refer to the actual product.

Install the connection step:



12V Connection diagram
Refer to the above connection diagram

24V-48V-60V.....
Connection diagram

- 1.First turn off the power switch of the inverter.
- 2.Use a black DC cable to connect the negative terminal of the battery to the black terminal of the inverter.
- 3.Connect the positive terminal of the battery to the red terminal of the inverter with a red DC cable.
- 4.Plug the power supply plug of the power equipment into the output socket of the inverter.
- 5.Open the inverter power switch can be used.

Disassembly steps:

- 1.First turn off the power switch of the inverter;
- 2.Pull out the power plug of the load.
- 3.Remove the red DC cable;
- 4.Remove the black DC cable

Warning

The position of the battery terminal of different type inverter is different, please refer to the object.

For example, when the power of an AC load is 100W, the current supplied by the power supply must be 100/10=10A. In the need of a larger current, you can use several batteries in parallel to use. The most important thing is to ensure that there is enough cross-sectional area of the connecting cable. This manual does not list all battery pack types. The battery's charging and battery configuration belong to another professional category.

Installation method

- Warning**

1.Wiring diagram is only for basic reference, please contact professional technical personnel for actual installation.

One or more batteries can be used in inverters. One or more batteries can be used in inverters. It's better to use 150AH or batteries with bigger capacity.

2.Since it may be necessary to connect the battery for these operations, make sure there is no flammable gas around before connecting.

Connect the inverter and the battery with the cables supplied with the inverter (excluding the high-power mode cable). The red cable is connected to the red terminal of the inverter input terminal and the positive terminal of the battery. The black cable is connected to the inverter input terminal black and battery negative. Please ensure that all cables are stable and reliable.Improper connection may result in overheating of the cable, damage to terminals and lugs. At the same time will cut down the battery power supply time. Turn the inverter mode to ON, if your battery is fully charged, the light of inverter will display green. The inverter is protected if the light displays red, so try to solve it before using. (Check whether the battery voltage is too high or too low, the inverter output is overload or short circuit)

The power source for the 12V inverter can be used with a 12V battery or several 12V batteries in parallel to increase the battery's power supply time.

3.Inverter must be connected to the same nominal voltage of the battery, 12V inverter connected to the 12V battery, 24V inverter connected to the 24V battery

4.Before you plug in all your power devices, make sure all devices are shut down.

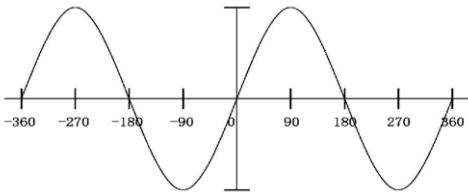
Turn on the power switch of the inverter, the LED on the POWER edge emits green light. Then you can turn on your device one by one. Before using the electric equipment, please check whether the power of the appliance is within the power range of the inverter. If the power of the inverter is exceeded, the inverter will have overload protection. The red indicator lights are flashing, so you need to reduce the load and troubleshoot. If the indicator is red, it is overloaded, so you need to reduce the load and restart before working.
- In the installation of connection cables should use a suitable cable, such as 220V output cable is too long or the wire cross-sectional area is too small, there will be a lot of power loss in the cable, the load side of the performance of small power, low voltage.

•Batteries and inverter connection cable is not standardized, the cable is too long, the cross-sectional area is too small, bad connection parts, will cause a lot of power loss. performance for the lack of output power, the battery voltage is too low, short working hours, and even turn on the alarm does not work. at the same time the cable should be waterproof, dielectric strength must meet requirements of the use of the environment.

Performance introduction

An inverter is a power supply that converts direct current (batteries, solar cells, wind turbines, etc.) into alternating current. Because of the high frequency inverter used in power conversion technology, ferrite transformer to replace the old bulky silicon steel transformer. This is why the inverter of our company is lighter weight and less bulky than other inverters that have similar rated power. While inverting mode, inverter will output pure sine wave which is really same as public power supply. If the power of the appliances is not exceed the power of the inverter it can drive those basically.

Pure sine wave



Using environment

- In order to achieve the best use effect, please put the inverter in the surface of the smooth place, such as the ground, the floor of the car, or other solid surface. Let the inverter power line can be fixed easily. The working place should meet the following standards:
- 1.Do not allow the inverter to contact with water or other liquid to keep the inverter away from moisture or water.
- 2.In a cool environment, the temperature is 0 degrees (without condensation) to 40 degrees. Don't put the inverter next to the heating vents or other heating devices. Keep the inverter out of the sun as much as possible.
- 3.Keeping the ventilation and the absence of obstructions around it ensures that air is free to circulate. When the inverter is working, do not put something on the inverter. The inverter fan is used to help dissipate the heat.
- 4.Be careful not to use inverters near flammable materials or places where flammable gases can be gathered.
- 5.The battery not only provides a dc voltage of 11V to 15V, but also provides sufficient current to run the load. The power supply should be a good battery full of electricity. To estimate roughly the current required for a load, it can be estimated by dividing the power of the load by 10.

Rated current and actual use of equipment

The nominal current or power of most power tools, household appliances and video and audio equipment is much smaller than the nominal power range of the inverter, but overload protection occurs when they are started. Inverter is the most easy to drive resistive load or switching power supply load. Because the resistive load is a linear load, it can work full load. Such as electric stove, rice cooker, LCD TV and other equipment.

Some audio-visual equipment and electric tools to a greater level than resistive load power can work normally, such as asynchronous motor, CRT TV, compressor, water pump etc. 2 to 6 times the working current is required to start. The ability to run specific loads is subject to test.

Warning

Continuous frequently open and close inverters can cause damage. Non-professional technicians, do not open inverter shell

Common problem

Electric tools and microwave ovens cannot start

Carefully read the information on each power tool and accurately determine the input power of the tool. Whether the output power is enough to run the tools and microwave ovens, remember that power tools may need 2 to 6 times power requirements.

Television interference

- The inverter has little interference with the television signal. However, in some cases, some disturbances are still visible, especially when the television signal is weak. Please try the following methods:
- 1.Try to keep the inverter away from the TV antenna or lengthen the TV antenna cable;
2. Adjust the direction of the inverter.
- 3.Ensure that the antenna provides strong signal strength to the TV set, and use high quality antenna cable with good shielding effect.
- 4.When you watch TV, do not run high power electrical equipment or tools.
- 5.There is no way to completely disappear some of the old TV interference.

Warning

Normally the fuse will not burn out unless serious circuit failure occurs. When the inverter fails, please do not try to repair it yourself. Please contact a professional technician to deal with the machine, there will be high voltage electric shock hazard.