Power inverter

Manual

■ Thanks for choosing our power inverter, with light volume and reasonable design, the inverter, leading new trend of high frequency converter, aims at supplying reliable power source for home appliances such as TV, phone, and electric power tool etc. With many modes of protection, the inverters and battery can work efficiently and being protected even when carried with heavy load.

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I.Operating environment

To prevent personal injury or property damage, follow these instructions carefully.

1.Keep the inverter dry, it can not be soaked.

2.Cool (The temperature should be between 0℃-40℃)

3.Keep well ventilated. Allow at least 5cm clearance above and on all sides of the unit for enough cooling and air circulation.

II.Installation & Operation

1.Connect the inverter to a battery or car cigarette lighter. The car cigarette lighter needs to work below 150W, otherwise please connect the battery directly. Connect the positive to the positive electrode(+) , the negative to the negative electrode(-), ensure they are not reversed.

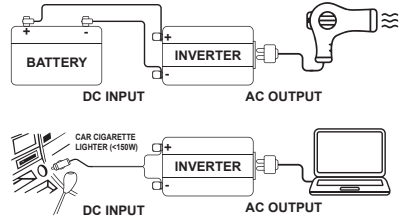
2.Insert the appliance plug into the AC outlet. Ensure that the total peak watts of all appliances is lower than the continuous power of the inverter.

3.Turn the inverter's switch ON.

4.If the RED indicator light is on, the inverter will shut down caused by low or high voltage, overload or excessive temerature.

5.In many cases, the power available through car cigarette lighter socket shall not exceeds 150W around, or else the inverter will beep and shut down, cars fuses may blown up. Restart the car and use a smaller appliance instead. If your appliance is over 150W, Please connect the inverter directly to the battery by cables.

III. Diagram



Precaution:

1. A device with an inductive load requires 3-7 times the power to start (It is also recommended to use a pure sine wave inverter). Therefore, the rated power of some devices is less than the continuous power of the inverter, which will still cause overload and shutdown. Modified sine wave inverters cannot be used in microwaves, coffee machines, vacuum cleaners, speakers, pumps, refrigerators, ice boxs, etc.

2. When using multiple devices at the same time, turn off all switches, first turn on the device with the highest peak power, and then turn on the other device switches in turn.

3. Please confirm that your battery voltage matches the inverter you purchased before you use. The 24V battery cannot be used for 12V inverters. Not allowed when the positive and negative poles are reversed or shorted. Battery long time used may age and cause insufficient voltage. Make sure your battery capacity is sufficient for your appliance and the voltage is within range. The output voltage decreases as the input voltage drops and the output load increases. It is recommended to use the cable we provide. We can't guarantee the power output if you use too long cables. If it must be lengthened, you need to thicken the cables accordingly.

4. Do not try device with excessive power or current. Inverters are built-in fuses, but excessive currents at a moment may still damage the inverter. Only open the inverter cover to replace the fuses when the fuses blows. If you use more than 150W of device through a car cigarette lighter, it may blow a car fuse.

Q&A

Question 1: The inverter is off and no indicator is on.

Possible cause 1: The battery is weak.

Answer: Check the battery and replace as needed.

Possible cause 2: The positive and negative terminals of the battery are reversed.

Answer: Check the battery connection. If any damage is caused to the inverter, please inform the reason to seller for replacement or warranty.

Possible cause 3: Poor terminal contact.

Answer: Remove the cables and reconnect it, then try again.

Question 2: The inverter shut down and RED indicator is on.

Possible cause 1: The rated power of AC product is higher than the rated power of the inverter cause the overload shutdown.

Answer: Try to use AC electric products whose power level is less than inverter's nominal power.

Possible cause 2: The rated power of the AC product is less than the rated power of the inverter, but the peak power exceeds the rated power of the inverter, resulting in overload shutdown.

Answer: Try to use AC electric products whose peak power is less than inverter's rated power.

Possible cause 3: The battery is weak (inverter alarm).

Answer: Fully charge the battery or replace the battery.

Possible cause 4: Poor ventilation, causing over-temperature shutdown.

Answer: Turn off the converter, cool for 15 minutes, remove the contents around the inverter, place the inverter in a cool place, reduce the load, restart.

Possible cause 5: The input voltage is too high.

Answer: Check the working status of the charging system, battery output voltage is within rated range.

Question 3: The reading of the voltmeter is too low.

Possible cause 1: The output waveform of the inverter is not exactly the same as that of the household. The reading of the household voltmeter is smaller than the actual voltage of the inverter.

Answer: An oscilloscope is required to test the true voltage.

Question 4: The inverter beeps.

Possible cause 1: Undervoltage or overtemperature protection.

Answer: shorten the wire or use a thicker cable, charge the battery, let the inverter cool, improve the ventilation conditions of the inverter around, put the converter in a cool place, reduce the load as required.

Question 5: The inverter can only drive small power loads.

Possible cause 1: Voltage decay when current is passed through the wire.

Answer: Shorten the length of the wire, use thicker calbes. Use a larger full charged battery.

Question 6: Power usage time is too short.

Possible cause 1: the battery capacity is not enough for the appliance.

Answer: replace a larger capacity battery.

Possible cause 2: The battery is bad or damaged, the battery is not fully charged.

Answer: The charger cannot fully charge the battery, replace charger or new battery.

Possible cause 3: The voltage decays as it passes through the cable.

Answer: Shorten the length of the wire, use thicker cables.

Question 7: Fan problem.

Answer: Some models' fans will work when they reach a certain temperature or power. Fans of some models will work after they are switched on. In this case, you need to turn off the inverter to eliminate its noise.

Specification:

Output	Rated power	150W, 200W, 300W, 350W, 400W, 500W, 600W, 700W, 800W, 1000W,1100W,1200W, 1300W, 1500W, 1600W, 1800W, 2000W, 2200W, 2500W, 2600W, 3000W, 3200W, 3500W, 4000W, 5000W	
	Surge power	≥ Rated power * 2	
	Output voltage	AC100V/110V/120V ±10%	AC 220V/230V/240V ±10%
	Output frequency	60Hz +/-5Hz 50HZ/60Hz	50HZ +/-5Hz 50HZ/60Hz
Input	Battery voltage	12V	24V
	High voltage cut off	DC15.5V ± 1V	DC 30V ± 2V
	Low voltage alarm	DC 10 ± 0.5 V	DC 19.5 ± 0.5 V
	Low voltage cut off	DC 9V ± 0.5 V	DC 18.5 V ± 0.5 V
	Input voltage range	DC10V-DC15.5V	DC20V-DC30V
*The shell Maximum working temperature ＜75℃			

After-sale and Warranty

1. All of our inverters are ensured of good quality and have been strictly inspected before leaving the factory.However, there are still a few products that are damaged due to customs inspection and express delivery. Please contact the seller to replace them within one week after receiving the damaged products.
2. We will provide a free warranty within 2 months, if the packaging and parts are complete. The buyer need to pay postage back to factory for warranty after 2 months within one year. The buyer shall be responsible for the relevant expenses if the purchase error is due to the failure to read the description carefully.
3. Sometimes the problem may be caused by improper operation, so please contact the seller first to see if it can be solved before write a review or apply to return. The seller will answer in 1 working day.

Please inform seller:

A. Detailed problem description (We can judge and solve your problem more quickly through a detailed problem description.):

a) Battery capacity and voltage;

b) The cable size you use, connect the battery or the car cigarette lighter;

c) The appliance you are using and its power;

d) indicator light or LED/LCD showed;

e) The inverter can't start your appliance at the beginning, or the appliance stops after some time;

f) Other details needed.

B. Photo or video about your problem: especially the photo of the indicator light or the LED without load or with load.

C. In order to save communication and processing time, please tell the seller your address and phone number at the end of your mail.

Please pack all parts in the box as you received when you need a warranty.

The following conditions are not covered by the warranty:

1. Incorrect installation and use, overload operation;
2. self-modification, change of label;
3. Use in harsh or humidity environments;
4. The buyer leave a malicious bad review without consulting the seller for help;
5. Intentional lost packaging and accessories.

For matters not mentioned, please consult the seller for further assistance.

Communication in advance will help us solve problems for you in a timely manner.