Specifications:

Output	*Rated power	80W.150W.200W.300W.500W.800W.1000W.1200W.1500W.2000W.2500W.3000W.4000W.5000W								
	*Power surge	≥Rated power*2								
	*output voltage	AC 100/110/115/120V(Internal adjustable) ±10%				AC 200/220/230/240V(Internal adjustable) ±10%				
	*output frequency	60HZ+/- 5Hz 50HZ/60Hz optional				50HZ+/- 5Hz 50HZ/60Hz optional				
Input	*battery voltage	12V	24V	36V		48V	60V			
	*High voltage cut off	DC15±1V	DC30±2V	DC45±2.5V		DC60±3V	DC75±3.8V			
	*Low voltage alarm	DC10.5±0.3V	DC21±0.5V	DC31±1V		DC41±1.5V	DC52±2V			
	*Low voltage cut off	DC10±0.3V	DC20.3±0.5V	DC30±1.5V		DC40±2V	DC51±2.5V			
	*Input voltage range	DC10V-DC15V	DC20V-DC30V	DC30V-DC45V		DC40V-DC60V	DC50V-DC75V			
	*Reverse connect protection input	Fuse piece								
	*Indicator light	Green power indicator, red fault indicator								
	*cooling	Fan								
	* The shell maximum working temperature	< 75℃								
Note: Some of the inverter is not designing undervoltage alarm. Undervoltage protection is 9.5±0.3V										

Power Inverter

DC to AC Power Inverter
User's guide

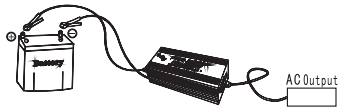
- Thanks for choosing our power inverter, with light volume and reasonable design, the inverter, leading new trend of high frequency converter, aims at supplying reliable power source for home appliances such as TV, DVD and electric power tool etc. With many modes of protections, the inverters and battery can work efficiently and being protected even when carried with heavy load.
- Please carefully read the manual before installing and using of the inverter.

I. Operating environment

To prevent bodily injury or property damage, follow these instructions precisely.
1.Keep the inverter dry, it can not be soaked.
2.Cool (The temperature between 0°C– 40°C.
3.Ventilation. Allow at least 5cm clearance above and on all sides of the unit for proper cooling and air circulation.

II. Installation & Operation

1. Try turning the inverter ON, and then plug the inverter's cigarette lighter into car's cigarette lighter socket and make sure the contact is well.
2. Make sure the power of the AC appliance is within the scope of the power labeled on the inverter, plug the AC product you wish to power into the AC110/220V, make sure the sum of the appliances output from two sockets shall not exceed the labeled power of the inverter.
3. Turn the inverter rocker switch to the ON position,The LED indicator light should glow GREEN verifying the inverter is receiving power that means it is normal.
4. The RED indicator light indicates inverter shut down caused by low or high voltage, overload or excessive temperature.
5. In many cases, the power available through car cigarette lighter socket shall not exceeds 200W around, or else the inverter will buzzing and shut down, just restarting the car and using a smaller power AC appliance instead will solve the problem.
6. Installation diagram



III. Precautions

1.Although your power inverter can supply momentary surge power twice the power rating, there could be occasions when products rated less than their rated watts may still exceed the inverter's surge capabilities, resulting in a triggered safety overload shutdown. Appliances such as TVs, computer monitors and electric motors are examples of products whose starting load will roar up to its peak load. If this problem occurs when attempting to simultaneously operate several AC products, first switching on the inverter with all AC products (appliances) turned off. After everything is powered off, turn each appliance on one-by-one, starting with the high surge product first.
2.Starting the car engine in time to charge your battery in order to avoid battery drain.
3.After continuous use, the temperature of shell surface will rise to 60° C, pay attention to keep ventilation, objects that are susceptible to heat should be kept away from it.

IV. Precautions

1.**Problem: The inverter shut down and indicator light is off**

Possible cause 1: The battery is weak.
Solutions: Examine the battery and replace it as necessary.
Possible cause 2: Batteries connected in reserve polarity.
Solutions: examining the battery's connection, if any damage done to inverter, it should be replaced or sent to warranty.
Possible cause 3: poor contact at terminals
Solutions: Unhook and re-hook the 12-volt connections, and try again.

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

Possible cause 1: The rated power of AC product is higher than the nominal power of the inverter cause the overload shutdown.
Solutions: Try to use AC electric products whose power level is less than the converter's nominal power.
Possible cause 2: The power of AC electric product is less than the nominal power of inverter, the rated power is quite high lead to overload shutdown.
Solutions: The peak power of the AC electric product should be higher than that of the inverter, try to use electric products with the same peak power as the inverter.
Possible cause 3: The battery runs out(the inverter gives an alarm)
Solutions: Charge or replace the battery
Possible cause 4: The ventilation is not well, give rise up to overheat and shutdown.

Solutions: Turn off the connected load device and let the inverter cool for about 15 minutes, remove all the item around the fan and inverter, then keep it in the cool place and restart it for powering a smaller load as required.
Possible cause 5: The input voltage is too high
Solutions: check the status of charging system and the 12-volt battery output.

3. Problem: Output voltage of the inverter is too low.

Possible cause: A general voltage meter used for measurement of AC power gives small measurement range,
Solutions: True RMS Voltmeter is adopted for output measurement of the square wave inverter in order to obtain accurate data.

4. Problem: The inverter sends out alarm glare

Possible cause: low-voltage and overheat protection
Solutions: Shorten the wire cable and use the thicker wire cable to charge the battery, the inverter can power smaller loads and would better to be cooled and placed in a well ventilated area.

5. Problem: Inverter can only drive small power load

Possible cause: Electric power is being attenuated when electricity flows through the wire.
Solutions: shorten the wire cable and choose a thicker wire cable instead.

6. Problem: The battery life is too short.

Possible cause 1: AC product's power consumption is higher than rated load of inverter.
Solutions: Using larger capacity batteries or

replace battery.
Possible cause 2: Battery is damaged or being charged insufficiently.
Solutions: The battery never being charged sufficiently from battery chargers, therefore replace a better intelligent battery charger.
Possible cause 3: The electric current attenuates when flows through the wire cable.
Solutions: Shorten the wire cable and try to use a thicker one instead.

V. Technical Parameter

For Detailed parameter please refers to Page P14.

After-sale and Warranty

All the inverters listed in this warranty card are ensured of good quality and having passed strict inspection before they go out, One year from the date of purchase, if there are quality defects in products, our company will provide free warranty service. The warranty ordinance is listed as follows:

Within the warranty period (one year since the date of purchase), if any machine parts were damaged under normal using condition, we will, upon verification, offer new parts or maintenance for free and collect the damaged parts. Please contact the nearby dealers for any machine failure and bear the transportation cost during the warranty period.

For inverters models listed in the warranty card, iff one of the following occurs, beyond guarantee range

1.Artificial factors: inaccurate operation, refit and setup and malfunction of inverters.
2.Change into the other logo: refit and setup inverters without our authorization.
3.Being run in quite severe environment never mentioned in the manual.
4.Broken down by malfunction, negligence use and force majeure.
5.The damage caused by the dismantle, disassemble movement of a non-our-company authorized maintainer,
6.Inverters that are damaged from shipment but expired for the warranty period.
7.Damaged caused by force majeure

We will make the newest product database materials as final confirm even if any changes made to product sizes and data parameters in future without prior notice.

Please keep it well, show this card and purchase invoice to maintenance screws when call for after-sale service.

User Date Sheet

The user unit_____ The contact _____
The mobile phone _____ Distribution unit _____
Product model_____ The date of purchase_____

Maintenance records

Day	Model type	Summary	Repairer	User signature