



# 100W Slim Power Inverter

## user's manual

Model number-457100



### Important:

Before connecting or using your 100 watt inverter, please read and understand this User's Manual.

Please keep this manual for future reference.

### Safety Precautions

Incorrect installation or misuse of your DC to AC inverter may result in damage or hazardous conditions to the user. Please pay special attention to the following instructions and warnings.

## Warnings!

- **Do Not** open the case of the inverter.
- **Do Not** insert foreign objects into the inverter's AC outlet or vent openings.
- **Do Not** use the inverter in the open air when it is rainy or snowy; it is not designed to be waterproof.
- **Do Not** place inverter near heat sources: heating vents, radiators, sunlight and/or any other sources of heat.
- **Do Not** use the inverter in the presence of flammable fumes or gases, such as propane.
- **STOP USING** if you, the inverter, any item being operated, and/or the surface in contact with the inverter become wet. Shock, serious injury, or death could result as liquids can conduct electricity.
- To avoid a risk of fire, ensure the ventilation openings on the rear and bottom of the unit are not obstructed.
- Keep out of reach of children

## Caution!

- Connect the power inverter only to batteries with a 12V normal output. A battery with 6V normal output will not supply enough voltage and a battery with 24V normal output will damage the inverter. NEVER connect to household or RV AC distribution wiring.

- Know the voltage requirements of your appliances, the 115V output 100W continuous power inverter only can properly supply the power for those appliances that do not exceed the capacity of this unit.
- The wattage (WATTS) or amperes (AMPS) can normally be seen stamped or printed on most appliances and equipment or in the user's manual. To calculate the continuous load: Continuous load = AMPS X 115 (AC voltage); starting load = WATTS X 2.
- Do not operate the inverter if it has received a sharp blow, been dropped or otherwise damaged in any way.

### Features:

The 100W inverter efficiently and reliably operates personal electronics and mobile office equipment, such as notebooks, computers, cellular phones and camcorders with power consumption under 100 watts. It's recommended to run the vehicle's engine when using the 100W inverter, if the voltage of the battery is low, the inverter will automatically shut down. If you decide to use the inverter while the vehicle is off, we recommend starting the vehicle every hour for 10 minutes to recharge the battery. Turn off the item plugged into the inverter prior to starting the engine.

This compact inverter is convenient to carry and can be easily operated. It's equipped with the ability to prevent: high/low voltage, overheating, overloading and short circuiting.



1. DC power cable with an internal replacing fuse —Insert the cigarette lighter plug in the lighter socket. It has a replaceable 8A glass- fuse.

## Replacing the Fuse

Remove the blown fuse from the plug by gently unscrewing the tip of the lighter plug, and replace the fuse with a replaceable 8A glass- fuse.

2. LED indicator— When the inverter has DC input and run normally, the green LED indicator lights. When the inverter has shut down because of low or high input voltage, the LED indicator goes out.

3. USB port—offer 5V power to USB equipment.

4. 3 Pin AC outlet—It allows you to plug in an AC product with power consumption of 100 watts or less.

5. Ventilation openings— The ventilation openings should not be covered at any time while the inverter is operating.

6. Cooling fan— The high speed cooling fan to protect the inverter from being overheated.

## Note:

A fault is referred to as a low/high voltage, over heating, and/or over loading of the inverter. When the inverter goes into the fault status, the green LED will vanish and the inverter will automatically shut down. And it's recommended that you unplug all accessories/tools from the inverter, and unplug the inverter when the green LED vanish. The inverter can be reset by unplugging it and plugging it in again. This should be done without any accessory/tool plugged into the inverter.

## Inverter Specifications:

- Maximum Continuous Power..... 80Watts
- 5 minutes Continuous AC Power.....100Watts
- Surge Capability (Peak Power) ..... 200Watts
- Battery drain with no AC load .....0.25A (at a 12V input)
- Wave Form..... Modified Sine Wave
- Rated Input Voltage ..... 13.8  $\pm$ 0.2V DC
- AC outlet ..... 115V AC
- USB port ..... 5V 500mA
- Fuse ..... 8 amp
- Dimensions( $\pm$ 5mm) ..... 30mm W 123mm L 72mm H
- Weight ..... approximately 0.73 lbs

## Information

This power inverter is equipped with a standard North American AC power receptacle. Make sure the load requirement of your equipment DOESN'T exceed 100 watts. The power inverter is engineered to be connected directly to standard electronic equipment in the manner described below. DO NOT connect the power inverter to household or RV AC distribution wiring.

### Connecting the Inverter to your accessory outlet:

#### WARNING!

When using 12V cigarette plug, loads greater than 120W will blow the replaceable safety fuse in the accessory plug.

- 1) After properly connected to the 12-volt outlet;
- 2) Connect your AC products to the unit;
- 3) Turn on the AC products.

Caution: Connect the AC product one at a time.

Through its AC outlet, the inverter is capable of powering most 115-volt products that use 150 watts or less. Operating range:

1. 80 watts or less for continuous operation
2. 100 watts for 5-minute operation

## Attention:

1. Due to the limitation of 12V outlets in vehicles or boats, the inverter should only be used to supply AC power to products that require 100W or less.
2. Only use the attached wiring for the inverter, DO NOT use any other wiring that was not included with the inverter.

## Troubleshooting:

PROBLEM	SOLUTION
No voltage, no indicators.	Replace battery
	Reduce load, use a product with power rating less than 100 watts; check and replace the fuse.
	Use a product with starting surge power within the inverter's capability ( $\leq 200W$ ).
	charge the battery
	Unplug inverter from DC socket and allow to be cooled for 15 minutes. Remove objects covering unit. Move the inverter to a cooler place. Reduce load if continuous operation is required. Restart.
Inverter runs small loads but not large loads	Charge the battery

Water entered

Disconnect the inverter and wipe immediately with a dry cloth, or permanent damage can occur with liquid ingress.

## Warranty

### One Year Limited Warranty Program

NPower warrants this product for one year limited against any defects in materials or workmanship. The defective products will be replaced and repaired at no charge in either of one year.

This warranty lasts for 12 months from the date of purchase at the point of sale to you. This warranty does not apply where the product has been misused, improperly installed, physically damaged or altered, either internally or externally, or damaged from improper use.

NPower will repair or replace the defective product free of charge. Proof of purchase may be required. Warranty term is not extended if NPower repairs or replaces a product. NPower owns all parts removed from repaired products.

To qualify for the warranty, make sure the product has not been disassembled or modified without the prior authorization. If you require warranty service with your product, please return it to the place of purchase along with a copy of your dated proof of purchase or call customer service at 800-222-5381 for details.