



V2.1-M 5Jan2024

Nature Power 300 Watt Power Inverter

User Manual



WARNING: Read carefully and understand all assembly and operation instructions before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

#37300

SAVE THESE INSTRUCTIONS

Thank you for choosing a Nature Power Products

This product is designed for certain applications only. The distributor cannot be responsible for issues arising from modification. We strongly recommend this product not be modified and/or used for any application other than that for which it was designed. If you have a question relative to a particular application, do not use the product until you have first contacted the distributor to determine if it can or should be performed on the product. For technical question please call 1-800-588-0590

Parts List

Parts Description	Quantity
Inverter	1
Bare end to battery clamp cable	1/set
Bare end to 12V car plug cable	1
Manual	1



WARNING

This product can expose you to chemicals, including Di (2-ethylhexyl) phthalate (DEHP) which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to www.p65warnings.ca.gov



ADVERTENCIA

Este producto puede exponerlo a productos químicos, incluidos Di (2-etilhexil) ftalato (DEHP) que el estado de California sabe que causa cáncer, defectos de nacimiento u otros daños reproductivos. Para obtener más información, vaya a www.p65warnings.ca.gov

Important Safety Instructions

1. This manual contains important safety and operating instructions for power inverter. This manual will show you how to use your inverter safely and effectively. Please read, understand and follow these instructions and precautions carefully.
2. Keep out of reach of children.
3. Do not expose inverter to rain or snow.
4. Use of an attachment not recommended or sold by the unit manufacturer may result in a risk of fire, electric shock, or injury to persons.
5. Do not disassemble the unit; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
6. To reduce risk of electric shock, unplug unit from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.
7. For the most effective use, place the power inverter on a flat surface.
8. Do not place the inverter on or near heating vents, radiators or other sources of heat of flammable materials.
9. Do not place the inverter in direct sunlight. The ideal air temperature for operation is between 41° and 95°F.
10. Only connect the power inverter to a 12V battery or power supply. Do not attempt to connect the inverter to any other power source, including an AC power source. Connecting to a 6V or 16V battery will cause damage to the inverter.
11. Do not use the inverter with a product that draws a higher wattage than the inverter can provide, as this may cause damage to the inverter and product.

Intended Use

Power Inverters convert DC electricity to AC electricity then offer power to small electrical equipment and digital products. It has been widely used in cars, steamboats, mobile office, post and telecommunications, public security and emergency.

Electrical equipment can be used:

1. Office equipments: Compute, printer, facsimile printer, min-duplicator, projector, working light.
2. Digital products: Most of mobile phone / digital camera / digital projector, PDA, palm computer, recreational machines.
3. Small house electrical equipment: TV, fan, water dispense, dust collector, small electric iron, hair drier.
4. Hardware appliance: Portable electric drill, waxing machine, electric iron.

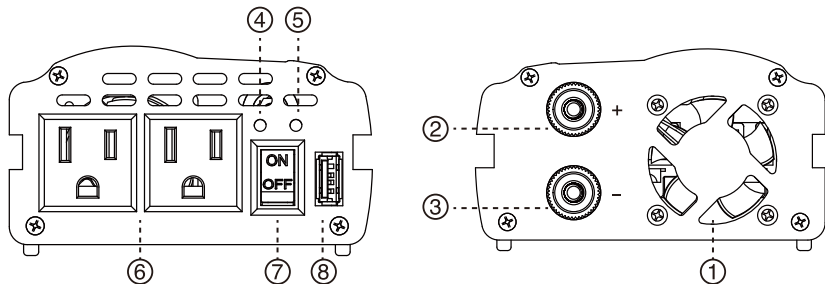
Electrical equipment can not be used:

- 1, All electric appliances that exceed the rated power of the inverter
- 2, Generally capacitive load and perceptual load appliances are inapplicability: Air condition, high power electric drill, fridge, microwave oven, blender.
- 3, Not recommend appliances which have strict requirements on power supply, such as precise equipments, if use ordinary power inverters with this kind of equipment will affect the measuring data.

USB charger

Some appliances must charge with original charger, Please read appliance's manual before use.

Product diagram



① Fan

② DC input “+” terminal

③ DC input “-” terminal

④ Power indicate light (Green)

⑤ Fault light (Red)

⑥ AC socket

⑦ ON/OFF Switch

⑧ USB port (If have)

Power Source

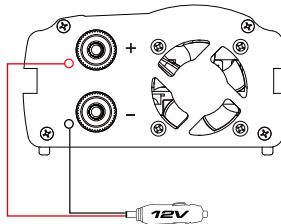
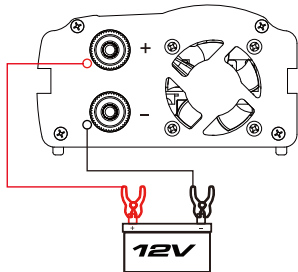
- Your average automobile battery at full charge will provide an ample power supply to the inverter when the engine is on.
- Keep the car running at all times when using the inverter. The actual length of time the inverter will function depends on the age and condition of the battery and the power demand being placed by the device being operated with the inverter.
- When possible, recharge your batteries when they are not more than 50% discharged. This gives the batteries a much longer life cycle than recharging when they are more deeply discharged.
- The power inverter has a battery low voltage shutdown at 9.2-9.8VDC. With moderate to heavy loads, this will protect against over-discharging the battery. If the inverter is running only light loads it is advisable to recharge before the inverter low voltage shutdown point is reached.

IMPORTANT: The inverter draws low amperage from the battery with the main ON/OFF switch turned on and no load connected. To prevent battery discharge, turn the inverter off when you are not using it.

Operating instruction

Connecting inverter to 12V battery / vehicle

1. Locate the Positive and Negative terminals on the inverter
2. From the POSITIVE (RED) and the NEGATIVE (BLACK) terminals, loose the screws,
3. Place the cable's POSITIVE (RED) bare end into the POSITIVE (RED) inverter terminal. Place the NEGATIVE (BLACK) bare end into the NEGATIVE (BLACK) inverter terminal.
4. Tighten both terminal screws.
5. Switch the inverter to OFF (O) position. Connect battery clamp to 12V battery, positive to positive, negative to negative.
or use the 12V DC car plug connecting to the 12V outlet on vehicle.



Operating

1. Connect the inverter to power source (see inverter connecting section).
2. Switch the inverter's ON/OFF switch to the ON (I) position.
3. The GREEN LED indicator will light, indicating the inverter is receiving power.
4. Switch the inverter's ON/OFF switch to the OFF (O) position.
5. Make sure the device to be operated is turned OFF.
6. Plug the device into the inverter's AC outlet.
7. Switch the inverter's ON/OFF switch to the ON (I) position.
8. Turn the device on.
9. To disconnect, reverse the above procedure.

Note

- If more than one device is to be powered, start one device at a time, to avoid a power surge and overloading the inverter. The surge load of each device should not exceed the inverter's Continuous Operation wattage rate.
- Load devices should not exceed 120 Watt when using in the vehicle.
- Using the inverter with some rechargeable devices may damage the inverter and/or device. If you are using the inverter to operate a rechargeable device, monitor the temperature of the inverter for about 10 minutes. If the inverter becomes abnormally hot, disconnect it from the device immediately; do not use the device with the inverter.
- Please use the inverter in ventilate condition and make sure the fan is not blocked.
- To save energy, the fan will not work unless the following two situations:
 1. Load is exceed 30% of the related power of the inverter.
 2. Temperature of the inverter exceed 60°C.

Fuse blows

Your power inverter is fitted with fuses, which should not have to be replaced under normal operating conditions. A blown fuse is usually caused by reverse polarity or a short circuit within the device or equipment being operated. If a fuse does blow, take the inverter to a qualified technician for repair.

Trouble Shooting

State description			Possible Cause	Reason/solution
<i>LED Light</i>	<i>Alarm</i>	<i>AC Output</i>		
Green ON Red OFF	YES	YES	Input low voltage	Battery low, recharge or replace battery
Green ON Red ON	YES	NO	Input low voltage shut down	Battery low, recharge or replace battery
Green ON Red ON	NO	NO	Input over voltage shut down	Check battery voltage, Operating input voltage 11-15VDC
Green ON Red ON	NO	NO	Over load protection	Use a higher capacity inverter or reduce the load or device on the inverter
Green ON Red ON	YES	NO	Over temperature shut down	Allow inverter to cool, check for adequate ventilation. reduce the load to the rated continuous output
Green ON Red ON	NO	NO	Output short circuit	Check load devices or replace the load devices

Note: *USB output works normal under these protection conditions.

*A multimeter may be needed to troubleshooting.(Not included)

Specifications

Operating input voltage	11-15 VDC
Input voltage (Nominal)	12.8-13.2 VDC
Nominal output voltage	110±10% VAC
Output frequency	60±3 Hz
Continuous output power	300 W
Surge output power.....	600W
Waveform.....	Modified sine wave
Efficiency (typical).....	> 85%
No load current.....	<0.45A
Input over voltage shutdown	15-16 VDC
Input under voltage alarm	10.2-10.8 VDC
Input low voltage shutdown.....	9.2-9.8 VDC
Output power overload shutdown level.....	360-460 W
Output Short circuit Protection.....	Yes
Over Temperature Shutdown.....	Yes
Fuse.....	40A x 1
Ideal working temperature.....	5-35°C / 41-95°F
USB port	5V/2.1A
AC receptacles.....	2 x 110VAC

Limited Warranty

Nature Power warrants our products to the original purchaser that this product is free from defects in materials and workmanship for the period of 1 year from date of purchase. In the case of product defect, contact Nature Power customer service to receive trouble shooting. If defective part or unit should be returned, a Return Authorization Number must be issued by Nature Power and the defective part or unit should be returned to the authorized location at the purchasers' expense. A dated proof of purchase is required to receive warranty service. Once received at authorized location and defect proves to be the result of defective material and workmanship, the defective part or unit will be replaced at warrantors' option and returned to the original purchaser at warrantors' expense. No refunds will be granted by the warrantor, in the event of buyer's remorse please contact your point of purchase within and in adherence to their return policy. Refunds are granted at the retailers' discretions.



Please contact Nature Power Products to acquire more information:

1-800-588-0590

info@naturepowerproducts.com

www.naturepowerproducts.com

Made in China