

80W POWER INVERTER

Model 66944

SET UP AND OPERATING INSTRUCTIONS



This product will power up and charge:

Electronics, Appliances, Camcorders, TV's, DVD Players, Video Game Consoles and **CHARGE** Computers using your vehicle's battery power.

Visit our website at: http://www.harborfreight.com

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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For technical questions or replacement parts, please call 1-800-444-3353. Revised Manual 091

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER indicates

a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

indicates a hazardous situation which. if not avoided. could result in death or serious injury.

- CAUTION, used ACAUTION with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
 - NOTICE

NOTICE is used to address practices not related to personal injury.

CAUTION

CAUTION, without the safety alert symbol. is used to address practices not related to personal injury.

GENERAL SAFETY WARNINGS

WARNING Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

- 1. Do not plug small appliances into the inverter to directly recharge their nickel-cadmium batteries. Always use the recharger provided with the appliance.
- Keep work area clean and well lit. 2. Cluttered or dark areas invite accidents.
- 3. Keep inverter away from any direct heat source or combustible material.
- 4. Do not use electrically powered products in the presence of flammable gases or liquids.
- 5. Keep children away from this **Inverter.** Do not allow them to play with or around this product.
- 6. Do not use this item in rain, on a boat, or any other wet area. Do not expose to direct sunlight or heat.
- 7. Delicate device, handle with care. Do not drop or strike this item.
- 8. Before every use, check for any broken parts or mounting fixtures, and any other condition that may affect proper operation. Any part that appears damaged should be

carefully checked to determine that it will operate properly and perform its intended function.

- Do not disassemble. This item has no replaceable parts. If this product is damaged and/or does not function properly, the entire unit must be replaced.
- 10. Use the right inverter for the job. Do not attempt to force a small inverter or attachment to do the work of a larger industrial inverter. There are certain applications for which this inverter was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this inverter and do not use this inverter for a purpose for which it was not intended.
- 11. **Do not overload this device.** This device is designed for loads up to 80 Watts at 120 Volts AC only. Check the wattage of any device before using this item to power it. Some rechargeable appliances may damage the Power Inverter or the appliance. When first using a rechargeable device, check its temperature for the first 10 minutes. If it becomes abnormally hot, do not use this device with the Inverter.
- 12. This device is designed for use in 12 VDC, negative ground systems only.
- Allow adequate ventilation. Do not cover this unit while it is plugged in. This unit generates heat; without proper ventilation it may overheat, potentially causing a fire hazard.
- Leave this device unplugged whenever the car's engine is turned off. To help prevent draining and perhaps damaging the battery,

only plug this device in while the car's engine is on.

- 15. Make sure that the unit to be powered is switched off before being plugged into this device.
- 16. Do not use this device if under the influence of alcohol, drugs, or medication. Read warning labels if taking prescription medicine to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not use this device.
- 17. **Stay alert.** Watch what you are doing, use common sense. Do not use this device if you are tired.
- 18. An engine must never be run indoors, in a garage, or any other sealed structure. Carbon monoxide is produced by running engines and is DEADLY in a closed environment. Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, or nausea. If you have these signs, get fresh air immediately.
- 19. Store idle equipment. When not in use, this product must be stored in a dry location to inhibit rust.
- 20. **WARNING:** This product contains or, when used, produces a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. (California Health & Safety Code § 25249.5, *et seq.*)
- People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.

22. The warnings, precautions, and instructions discussed in this instruction sheet cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Continuous Power	80 Watts
Input Voltage	12 Volts Nominal DC
Output Voltage	120V/60Hz
Fuse	8A (Tube Type)
Indicator	Green LED = power on
Output Wave Form	Modified Sine Wave
Outlets	1 - 120V grounded AC 1 - USB 5VDC, 500mA
Features	- Overload Shutoff @ 125W - Low Voltage Shutoff @ 10.5VDC

SPECIFICATIONS

This product will power up and charge:

Electronics, Appliances, Camcorders, TV's, DVD Players, Video Game Consoles and **CHARGE** Computers using your vehicle's battery power.

UNPACKING

When unpacking, make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at 1-800-444-3353 as soon as possible.

COMPONENTS AND CONTROLS



Figure 1

OPERATING INSTRUCTIONS



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this document including all text under subheadings therein before set up or use of this product.

- 1. Have the car engine running before starting.
- 2. Plug the Inverter into the cigarette lighter type socket. The green LED power indicator will light up.
- 3. To power a device or appliance:
 - a. With the device or appliance switched off, plug it into the Power Outlet or the USB Outlet on the Power Inverter.
 - b. Turn on the device and/or appliance.
- 4. After use, turn off the device, then unplug it from the Inverter.
- 5. Unplug the Inverter from the cigarette lighter type outlet.

<u>Note:</u> The total wattage of all items plugged into the Power Inverter must not use more than 80 watts during continuous operation, otherwise the Inverter may overload.

- <u>Note:</u> This unit has an automatic shut off feature if output is over 125 watts or if input is under 10.5VDC.
- **<u>Caution:</u>** Some rechargeable appliances may damage the Power Inverter or the appliance. When first using a rechargeable device, check the inverter's temperature for the first 10 minutes. If it becomes abnormally hot, do not use this device with the Inverter.
- Caution: It is recommended that the vehicle be running when you first connect the Power Inverter. Thereafter the engine can be on or off. If you run the Power Inverter with the engine off it is recommended that you start and run the engine every hour for at least 10 minutes to recharge the battery. Doing this will help prevent any unexpected shutdown of the equipment. This will also help ensure that there will be enough battery power to start the vehicle. Due to the risk of carbon monoxide inhalation, do not run the vehicle's engine within an enclosed area.

You should not use your car battery to power the Inverter for extended periods of time with appliances requiring high continuous load levels. The battery may become drained to the point that it will not be able to start your car.

Note: Deep cycle (marine and RV) batteries can be charged more times than a car battery, and are a better choice for repeated use of the Power Inverter. Do not discharge your car battery more than 10% of its total capacity, and deep cycle batteries more than a 50% discharged state.

MAINTENANCE

Keep this unit clean and dry. Disconnect the unit before cleaning. Clean only the outside of this unit with a soft, dry cloth; never clean this unit with water or harsh cleaners.

1. Discharge unit before continuing.



Figure 2

Outlet Adapter

- 2. If the fuse needs replacing:
 - a. Disconnect the Inverter from the cigarette lighter type outlet.
 - b. Unthread the end of the Cigarette Outlet Adapter, turning the end counterclockwise. The pieces are spring tensioned, so be careful so the fuse doesn't pop out.
 - c. Remove the spent fuse and replace with a new fuse.
 - d. Replace the end of the Cigarette Outlet Adapter, pressing the sections together and threading closed in a clockwise direction.
- **Note:** Aside from the fuse, this device does not contain any user replaceable parts. If it needs service, take it to a qualified technician.

PLEASE READ THE FOLLOWING CAREFULLY

NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESS-LY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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Record Serial Number Here:_

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.