

OWNER'S MANUAL

DieHard

Power Inverter 750

Converts 12V DC Power to 110V AC
Household Electrical Power

Model No.
200.71495



CAUTION:

Read all Safety Rules and Operating Instructions,
and follow them with each use of this product.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

00-99-000862/0508

IMPORTANT: CHARGE IMMEDIATELY AFTER PURCHASE

IMPORTANT: READ AND SAVE THIS SAFETY AND INSTRUCTION MANUAL.

1. IMPORTANT SAFETY INSTRUCTIONS

Before using your Power Inverter 750, read and understand this Owner's Manual.

- 1.1 Keep the inverter well ventilated in order to properly disperse heat generated while it is in use. Make sure there are several inches of clearance around the top and sides and do not block the slots of the inverter.
- 1.2 Make sure the inverter is not close to any potential source of flammable fumes, gases or clothing.
- 1.3 Keep the inverter dry.
- 1.4 DO NOT allow the inverter to come into contact with rain or moisture.
- 1.5 DO NOT operate the inverter if you, the inverter, the device being operated or any other surfaces that may come in contact with any power source are wet. Water and many other liquids can conduct electricity, which may lead to serious injury.
- 1.6 Do not place the inverter on or near heating vents, radiators or other sources of heat.
- 1.7 Do not place the inverter in direct sunlight. The ideal air temperature for operation is between 50° and 80°F.
- 1.8 Do not use the inverter near an open engine compartment.
- 1.9 Only connect the power inverter to a 12-volt battery accessory outlet or 12-volt battery. Make sure the AC plug and/or USB connection is tight.
- 1.10 Do not modify the AC or USB receptacle in any way.
- 1.11 Use only 40-amp or 50-amp fuses. (Replaced by certified technician only: 1-800-SEARS-64.)

WARNING: Handling the cord on this product or cords associated with accessories sold with this product, may expose you to lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. ***Wash hands after handling.***

2. POWER INVERTER 750 PRODUCT FEATURES



1. ON/OFF Button
2. Digital Display
3. LED Indicators
Voltage In
Voltage Out
Power Out
4. Two, 3-prong 110V
AC Outlets
5. Positive and Negative
Connector Knobs (not
shown)
6. USB Port (not shown)



Battery Clamps



12V Accessory Plug

3. BEFORE USING POWER INVERTER 750

It is important to know the continuous wattage of the device you plan to use with the inverter. The Power Inverter 750 must be used with devices drawing 750 watts or less. If the wattage is not marked on the device, an estimate can be made by multiplying the AC input current (Amps) by the AC voltage (110V).

Devices like TVs, fans and electric motors require additional power to start (commonly known as the “starting or peak power”). The Power Inverter 750 can supply a momentary surge in wattage; however even devices rated less than the maximum 750 watts can exceed the inverter's surge capability and cause an automatic overload shutdown.

Make sure the device you are using is compatible with a modified sine wave inverter.

4. CONNECTING CABLE ASSEMBLY

Determine whether you'll be using the battery clamps (750 watt output maximum) or accessory plug (120 watt output maximum).

- 4.1 Make sure that there is no device plugged into inverter before making connection.
- 4.2 Unscrew the positive (red) and negative (black) plastic connector knobs from the studs on the back of the inverter.
- 4.3 Slip the red (positive) ring terminal of the 12V accessory plug over the red (positive) stud. Screw on the connector knob and tighten securely. Repeat the same process for the black ring terminal.
- 4.4 **Accessory Plug:** Push the 12V accessory plug firmly into a 12V accessory outlet.

Battery Clamps: Connect the red (positive) battery clamp to the positive (+) battery terminal. Connect the black (negative) battery clamp to the negative (-) battery terminal, taking care to shield eyes, clothing and hands from battery acid.

5. USING INVERTER

Determine the wattage of device being used. The Power inverter 750 must be used with devices drawing 750 watts or less when being used with the Battery Clamps and 120 watts or less when using the Accessory Plug.

- 5.1 Plug the device to be operated into either the AC outlet of the inverter or USB connector. NOTE: If using more than one device, the total combined wattage of both devices must not exceed 750 watts.
- 5.2 **Press and hold** the ON/OFF button to turn the inverter ON. The VOLTAGE IN indicator will glow and the digital display will show the DC input voltage.
- 5.3 Turn the device ON. To show AC VOLTAGE OUT, press the ON/OFF button once. Press the ON/OFF button once again to show total wattage used by the device (POWER OUT). NOTE: If there is a short circuit or power surge in the device, 5C will display and an alarm will sound. Press the ON/OFF button to turn off the alarm. If the 5C displays after several attempts, there is a short circuit or the device requires more surge power than the inverter is capable of providing.
- 5.4 **TO DISCONNECT THE INVERTER:**
 - Turn device OFF
 - **Press and hold** the ON/OFF button to turn the inverter OFF
 - Unplug the device from inverter
 - If using the **Accessory Plug**, unplug inverter from 12V DC accessory outlet. If using the **Battery Clamps**, unclamp inverter from 12V battery.

6. DISPLAYS

6.1 LED Indicators

The LED indicators identify the operating status of the inverter.

- **VOLTAGE IN:** DC voltage of the battery, vehicle electrical system or power supply.
- **VOLTAGE OUT:** AC voltage supplied to device through the outlets.
- **POWER OUT:** AC power (wattage) supplied to device through the outlets.

6.2 Digital Display

The values of the corresponding LED indicators will be shown in the digital display.



- **VOLTAGE IN**
- **VOLTAGE OUT**
- **POWER OUT**

If a problem develops during use, an audio alarm will sound, and one of the codes shown below will display. To stop the alarm, press the ON/OFF button.

- **bPd** – Inverter is not functional. Call Customer Service to trouble shoot problem, anywhere in the U.S.A.
7 am to 4:30 pm Central Time, Monday through Friday, 1-800-SEARS-64 (1-800-732-7764).
- **Hi b** – Vehicle's battery voltage is more than 15.5 volts. Inverter will automatically restart after the voltage drops below 15.0 volts.
- **Hi P** – The continuous load demand from the device exceeds 750 watts.
- **Hot** – Inverter is overheated and automatically turns off for a period of 1–3 minutes to cool. Make sure inverter is well ventilated. It will automatically restart after it cools.
- **Lo b** – Vehicle's battery voltage is less than 10.5 volts.
- **5[-** Short circuit, power surge or overload in the device.

7. OPERATING TIPS

A typical automobile or marine battery at full charge will provide an ample power supply for the inverter. The actual length of time the inverter can be operated depends on the age and condition of the battery and the amount of power being drawn by the devices.

To extend operating time when using power from a car that's not running, turn OFF the device before starting the engine. Then run the engine periodically for approximately 10 minutes to recharge the battery.

Unplug the inverter when not in use to avoid battery drain.

A "buzzing" sound emitted from inexpensive sound systems is the result of ineffective filters in the sound system.

Device Type	Estimated Wattage
Cell Phones, MP3 Players	10 watts
Portable CD Players	50 watts
Laptop Computers	90 watts
Video Games	100 watts
TVs	300 watts
Power Tools	375 watts
Small Appliances	525 watts

8. SPECIFICATIONS

Maximum Continuous Power	750 Watts
Surge Capacity (Output Wattage)	1500 Watts
No Load Current Draw	<0.6 Amps
Wave Form	Modified Sine Wave
Input Voltage Range	10.5 - 15.5V DC
Low Battery Alarm	10.7V - 11.3V DC
Output Voltage	110V - 125V AC
Low Battery Shutdown	10.2V - 10.8V DC
High Battery Shutdown	15V - 16V DC
Optimum Efficiency	>85%
Dimensions	8.5"L x 4"W x 2.2"H
Weight	Approximately 3.5 lbs.
AC Outlets	Two, 110V AC 3-Prong
Fuse	Two, 50 Amp or 40 Amp (spade type)

9. TROUBLESHOOTING

PROBLEM: ALARM IS ON

REASON	SOLUTION
Display shows S_C . Device has a short circuit or demands too much surge power.	<p>Cycle inverter power OFF and ON.</p> <p>If problem persists, use a larger inverter or a smaller device</p> <p>Remove defective device.</p> <p>Call 1-800-SEARS-64 (1-800-732-7764) for troubleshooting assistance.</p>
Display shows L_ob . 12 Volt battery is too low.	Recharge/replace low battery.
Display shows Voltage in between 10.5 and 11.0 Volts.	<p>12 Volt battery is low.</p> <p>Recharge/replace low battery.</p> <p>Inverter will automatically shut off after battery voltage reaches 10.5 volts.</p>
Display shows H_ib . DC Voltage in is too high.	<p>If in a vehicle, repair/replace the alternator or charging system.</p> <p>Use a properly sized and rated 12 Volt battery.</p> <p>If input voltage returns to 15 volts or less, the inverter will automatically restart.</p>
Display shows H_iP . Device demands more than 750 Watts continuous power.	<p>Cycle inverter power OFF and ON.</p> <p>If problem persists, use a larger inverter or a smaller device.</p>
Display shows H_ot . Inverter is too hot.	<p>Increase ventilation to inverter.</p> <p>Move inverter to a cooler area.</p> <p>Reduce the power consumption of the device.</p> <p>Inverter will automatically reset after cooling.</p>

PROBLEM: INVERTER DOES NOT TURN ON

REASON	SOLUTION
Poor contact at terminals.	Unplug and reinsert Power Inverter 750.
Fuse is blown.	A blown fuse is usually caused by reverse polarity or a short circuit within the inverter. The fuse is not user replaceable.
Inverter may be defective.	Call 1-800-SEARS-64 (1-800-732-7764) for troubleshooting assistance.

10. WARRANTY

One-Year Full Warranty on DieHard Power Inverter 750

If this Power Inverter 750 fails due to a defect in material or workmanship within one year from the date of purchase, RETURN IT TO ANY SEARS STORE or OTHER DIEHARD OUTLET IN THE UNITED STATES FOR FREE REPLACEMENT.

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

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For information about troubleshooting, call toll-free from anywhere in the U.S.A. 7 am to 4:30 pm CT Monday through Friday.

1-800-SEARS-64 (1-800-732-7764).

