



**Owner's Manual for N-Verter™  
NVS150U**

**Mobile DC-AC 150W Slim Power Inverter Unit**

**Read Carefully and Completely Before Using**

- Efficient, quiet and portable
- Direct Plug-in design
- Adapts to any size 12VDC accessory outlet
- Auto low battery shutdown to prevent battery damage

Lenmar offers innovative products for consumers and encourages the safe and proper use of each power accessory to achieve the maximum performance of the product and the devices it powers. Read these instructions carefully to safely use your N-Verter.

Lenmar's N-Verter is an electronic device that converts low voltage DC (direct current) electricity from a battery to 110/120VAC (alternating current) standard household power. The AC output of this product is a modified sine wave with a voltage of 110/120 volts. With your Lenmar N-Verter you can power your laptops, computerized games, cell phones, camcorders, power tools, reading lamps, fans, and more.

**Important:** Before using your N-Verter, read and understand this owner's guide. Save these instructions—this owner's guide contains important safety instructions.

1.

**Attention:**

1. Due to the limitation of 12V outlets in most vehicles or boats, the inverter should only be used to supply AC power to products that require 120W or less. Exceeding this power rating may cause the fuse connected to the power socket in your vehicle to blow.
2. If used in your automobile, you may hear a slight "buzz" sound from your sound system when operating the inverter. This is due to ineffective power filters in the sound system. Generally, the only solution is to replace the audio product with a higher quality filter/power supply.

**Fault Status:**

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 indicator LED will turn from Green to Red and the inverter will automatically shut down. For low voltage and over heating, the inverter will sound an alarm first, then the indicator LED will turn Red. At the same time it will automatically shut down, and it's recommended that you turn off the inverter when the red LED lights up. The inverter can be reset by turning inverter on, off and back on in quick succession. This should be done without any accessory/tool plugged in.

**Inverter Specifications:**

- Continuous Power.....130Watts
- Max. continuous for 5 minutes.....150Watts
- Surge Capability (Peak Power).....260Watts
- No Load Current Draw.....<0.4A
- Wave Form.....Modified Sine Wave
- Input Voltage Range.....10-15VDC
- AC outlet.....115V AC socket
- Internal protection.....15 Amp fuse
- Dimensions......68mm W x 92mm L x 150mm D
- Weight.....approximately 95g.

**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 130 watts. The power inverter is engineered to be connected directly to standard electrical and electronic equipment in the manner described below. **DO NOT** connect the power inverter to household or RV AC distribution wiring.

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**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. No user serviceable parts inside.
- **Do Not** insert foreign objects into the inverter's AC outlet or vent openings.
- **Do Not** use the inverter near water, moisture or liquids.
- **Do Not** place inverter near any heat sources, such as heating vents, radiators, or direct sunlight.
- **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 overheating, 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; this unit can only properly supply 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.

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Symptom	Problem / Solution
No power to inverter, accessories not working.	<b>Loose connection or bad fuse</b> - Recheck all connections and inverter's fuse. Check vehicle's fuse
Equipment being operated is drawing too much power.	<b>Load limit exceeded</b> - Use a higher capacity inverter or reduce usage.
Inverter is too hot due to high environmental temperature or the load is too high.	<b>Temperature limit exceeded</b> – Allow inverter to cool. Check for adequate ventilation. Reduce the load on the inverter to rated continuous power.
Red LED light on.	<b>Battery voltage below 11 volts - battery should be recharged or replaced. Equipment being operated is drawing too much power</b> – Use a higher capacity inverter or reduce usage. Inverter too hot – see above.
Low Battery Alarm on.	<b>Input voltage below 11 volts or a poor/weak battery condition</b> – Recharge or replace battery. <b>Inadequate power to inverter</b> – recheck connections, check condition on cigarette lighter socket.

**Limited 2 Year Warranty**

This limited warranty starts from the date of original purchase and expires 2 years thereafter. If, during this period, any part, because of manufacturing defects or workmanship fails to function properly under normal use will be repaired at no charge for parts and labor or, at our option, the product will be replaced. The following is excluded: damages from delay or loss of use of equipment, or damaged batteries, malfunctions resulting from misuse, tampering, unauthorized repairs, modifications, or accident. Package the unit and its accessories carefully using ample padding material to prevent damage in transit and ship it prepaid and insured to:

LENMAR ENTERPRISES INC. USA  
4035 VIA PESCADOR  
CAMARILLO, CA 93012

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**Features:**

The 150W inverter efficiently and reliably operates personal electronics and mobile office equipment, such as: TV, laptop computers, digital/ video cameras, MP3 players, mobile phones, PDAs, camcorders and more. It can also be used to recharge 115 Volt AC devices that have an appropriate recharging adapter. 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 is easy to operate. The NVS150U includes the following features:

- 130 watt continuous output
- Convenient 5V USB PowerPort
- LED Indicator – shows the operating status
- Standard N. America type 115V AC Outlet
- Electronic circuit protection prevents damage due to over voltage, over heat, over load, low voltage and short circuit
- High-Speed Cooling Fan
- 12V DC Power Cable (Car / Airline compatible plug)
- 15A fuse in the PCB board
- Compact size
- Convenient carrying case

**Connecting the Inverter**

1. Connect the power cord to the inverter
2. Insert the cigarette plug into the vehicle's (or jump-starter's) or Airline's provided power socket 12V DC outlet.
3. Rotate the plug slightly after insertion to make sure there is good contact.
4. The LED indicator will light green, indicating a proper connection.
5. Plug the AC device to be powered into the inverter's AC outlet.
6. Turn on appliance or tool.

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When sending in product for service you must first get a Return Authorization by visiting [www.lenmar.com/warranty](http://www.lenmar.com/warranty) fill the out required form and our customer service reps will email you instructions on returning the item to us and issue a RETURN AUTHORIZATION NUMBER (RA) to be include on the box and any corresponding paper work. If you have any questions please call customer service at (805) 384-9600.

All packages should include evidence of the date of purchase. Enclose \$10.00 for shipping and handling for addresses in the US and \$15.00 for addresses in Canada. For outside the US and Canada, freight will vary depending upon the ship to address.

For further information contact  
Lenmar Enterprises, Inc.  
Product Service Department  
Phone: (800) 424-2703  
E-mail: [sales@lenmar.com](mailto:sales@lenmar.com)  
Visit Our Web Site at: [www.lenmar.com](http://www.lenmar.com)

**Proposition 65 Notice (California)**

The following statement is required in the state of California pursuant to the settlement of an action brought by the Mateel Environmental Justice Foundation against multiple electronics and appliance manufacturers

**WARNING:** Handling the cord on this product will expose you to lead, a chemical known to the state of California to cause birth defects or other reproductive harm. Wash hands after handling.

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