AIMS Operating Corp., Inc. dba AIMS Power Warranty Instructions:

This product is designed using the most modern digital technology and under very strict quality control and testing guide lines. If however you feel this product is not performing as it should, please contact us:

techsupport@aimscorp.net or (775)359-6703

We will do our best to resolve your concerns. If the product needs repair or replacement, make sure to keep your receipt/invoice, as that will need to be sent back along with the package and RA# prepaid to AIMS. You have a full 1 year from date of purchase warranty.

This warranty is valid world wide with the exception that freight and duty charges incurred outside the contiguous 48 United States will be prepaid by customer.

Except as provided above, AIMS makes no warranty of any kind, express or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose. In no event shall AIMS be liable for indirect, special or consequential damages. This warranty only applies to AIMS Power branded products. All other name brand products are warranted by and according to their respective manufacturer. Please do not attempt to return non-AIMS Power branded products to AIMS Power.

For additional products such as:
-Modified sine wave inverters
-Pure sine wave inverters
-Low Frequency Inverters
-Solar Charge Controllers
- On Grid Inverters
-Inverter Chargers and Automatic transfer switches
-Custom cut cables
-Batteries
-Solar Panels
Please visit our web site: www.aimscorp.net

To find out where to buy any of our products, you may also e-mail: sales@aimscorp.net or call (775)359-6703.

AIMS POWER INVERTER

2500 WATT / 5000 WATT PEAK

Model PWRINV 250012W

Model PWRINV 250024W

ASSEMBLY AND OPERATING INSTRUCTIONS

**TO PREVENT SERIOUS INJURY,
READ AND UNDERSTAND ALL WARNINGS
AND INSTRUCTIONS BEFORE USE.**

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR 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.

Specifications

ITEM	DESCRIPTION
Continuous Power	2500 Watts
Peak Power	5000 Watts
Input Voltage	12 Volts DC (17V over voltage protection) 24 Volts DC (34V over voltage protection)
Output Voltage	120 Volts AC at 60 Hz
AC Receptacles	(2) Two 3-Prong, Polarized Outlets
Fuse	12V: 40Amp x 8Pcs; 24V: 20Amp x 8Pcs
Dimensions	15 1/2"L x 9 1/3"W x 3 3/5" H
Weight	10,4lbs
Indicators	Volt and Amp LED bar graph
Switch	Rocker type, On / Off
Operating Temperature	30-150° F (Automatic shutdown)
Recommended Input Cord	Battery cable (not included; 1 / 0 AWG(1 / 0) recommended)
Features	- Modified sine wave with overload protection - Low voltage alarm[1] and shutdown[2] - Overvoltage shutoff[3] [1] at 10.5 V; [2] at about 10 V; [3] at about 17Vdc (12V version) [1] at 21V; [2] at about 20 V; [3] at about 34Vdc (24V version)

Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

Safety Warnings and Precautions

WARNING: When using this device, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this tool!

1. **Do not plug in a battery charger** if the charger has a warning that dangerous voltages are present at the battery terminals.
2. **Keep work area clean.** Cluttered areas invite injuries.
3. **Keep inverter away from any direct heat source or combustible material.**

4. **Observe work area conditions**. Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lit. Do not use electrically powered tools in the presence of flammable gases or liquids.

5. **Keep children away**. Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cords.

6. **Store idle equipment**. When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.

7. **Use the right tool for the job**. Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.

8. **Use eye protection**. Always wear ANSI approved impact safety goggles when using tools.

9. **Do not overreach**. Keep proper footing and balance at all times. Do not reach over or across running machines.

10. **Maintain tools with care**. Keep tools sharp and clean for better and safer performance. Follow instructions for changing accessories. Inspect tool cords periodically and, if damaged, have them repaired by an authorized technician.

11. **Disconnect power**. Unplug inverter when not in use.

12. **Avoid unintentional starting**. Be sure the switch is in the Off position when not in use and before plugging in any appliance.

13. **Stay alert**. Watch what you are doing, use common sense. Do not operate any tool when you are tired.

14. **Check for damaged parts**. Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn On and Off properly.

15. **Servicing**. This device should be serviced only by a qualified technician. This item does not have any user-replaceable parts,except for fuses.

Troubleshooting Tips

1. If the low battery alarm sounds, this means that the input voltage is below the necessary 10.5 V. The battery needs recharging. You should stop using the appliance and then recharge the battery. If this is not done, the Inverter will shut off automatically at around 10 V.
2. If you are unsure if the inverter will have the proper amount of current to run the device, use this rough guideline: Take the power consumption of the load in watts and divide it by 12 (input voltage). The result will be the approximate number of amps needed to power your device.

   Example: Load is rated at 312 watts. 312 watts / 12 V = 26 amps needed. You could use this device with the inverter.
3. If your television will not start, it is important to keep in mind that some appliances (including many televisions) may require two to six times their wattage to start up.
4. If your audio system buzzes while using this inverter, it is because some sound systems can not filter out the modified sine wave produced by the inverter. Use a sound system that incorporates a higher quality power supply.
5. This inverter is made to minimize the interference with TV signals. However, especially with weak TV signals, some interference may still be visible. To correct this, place the inverter as far away as possible from the television antenna and it's cables. Next, adjust the orientation of the inverter to the antenna cables and TV power cord to minimize the interference. Also use a shielded antenna cable.
6. If the low battery alarm is on all the time, try these corrective measures: Recharge battery if in poor condition. Next, check the battery connection. You may need to clean the connectors.
7. If you are getting a low output voltage, try reducing the load to minimize watts. You may have overloaded the inverter. Reduce your load to 2400 watts. Also, keep input voltage above 10.5 volts to maintain a constant flow of power.
8. If you are not getting any power output, turn the power switch Off and On again, until the green power light comes on. Your devices may draw too much power to operate them. The inverter may be in thermal shutdown. Let it cool down and make sure there is adequate ventilation around the unit.
9. If the green light turns red one of the following has happened:
   A. Input voltage is too low. B. input voltage too high C. Short circuit D. Inverter is near overload.

5. **Display:**

DC Input Voltage Indicator :

- 7 Green LED : indicate 11-15V Range step: 0.5V (12V version);
  indicate 22-30V Range step:1V (24V version)
- 1 Orange LED : indicating lower than 11V (12V version);
  indicating lower than 22V (24V version)
- 1 Red(Bottom) LED: indicating lower than 10.5V (12V version);
  indicating lower than 21V (24V version)
- 1 Red(Top) LED: indicating above 15V(12V version);
  indicating above 30V (24V version)

Output Power Indicator :

- 8 Green LED indicate,step 250 Watts, up to 2000 Watts
- 1 orange LED indicate,step 2000 Watts, up to 2250 Watts
- 1 red LED indicating,The output load is more than 2250 Watts

6. Remote On/Off Switch

A **Remote On/Off Switch** can be connected to the **Remote Jack** allowing you to turn the inverter On or Off from a convenient location when the inverter is installed in an out-of-reach location. Be sure to have your power inverter and Remote On/Off Switch properly installed before attempting to turn the unit On(see "Installation" page 6). Before connecting the remote switch you should ensure the inverter is turned OFF (O). The plug the remote switch into the jack. The main power switch of the inverter must be turned ON (I) for the remote switch to function properly. You may now use the remote switch to turn the inverter ON (I) and OFF (O).

BOTTOM

Maintenance

1. Keep this unit clean and dry. Unplug 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.
2. This device does not contain any other user replaceable parts.If it needs service,contact your retailer or AIMS Power(see warranty page for details).

16. 
Guard against electric shock.
Do not open the metal case; risk of electric shock.
Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerator enclosures during installation.
Connect all wires securely and cover the connections with insulating rubber boots (not included).
Store tools and metal objects away from the inverter.
17. **Do not operate tool if under the influence of alcohol or drugs**. Read warning labels on prescriptions to determine if your judgement or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
18. **People with pacemakers should consult their physician(s) before using this product.** Electromagnetic fields in close proximity to a heart pacemaker could cause interference to or failure of the pacemaker.
19. **Keep the Inverter well-ventilated.** Do not place any objects on top of or next to the Inverter or allow anything to cover the cooling fans; doing so can cause the Inverter to overheat, causing a potential fire hazard and/or damage to the Inverter. Leave adequate ventilation space underneath the Inverter as well; thick carpets or rugs can obstruct air flow, causing the Inverter to overheat.
20. **Read and adhere to all warnings and safety precautions in the owner's manual for the device that this inverter is used to power.**
21. **A vehicle's engine must never be used in any sealed structure.** Carbon **monoxide is produced during operation 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.

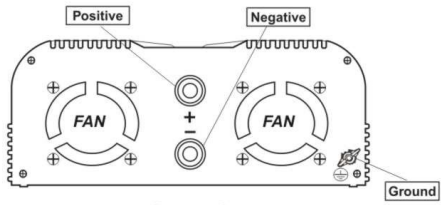
Note: Performance of this unit may vary depending on the available battery power or appliance wattage.

Warning: The warnings, cautions, and instructions discussed in this instruction manual 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.

Unpacking

When unpacking, check to make sure that the Inverter is in good condition. If any parts are missing or broken, please call AIMS Power,Inc. at the number found on the warranty card.

BACK



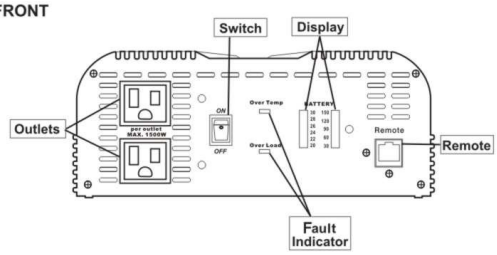
Connection

For the power inverter to work properly, your power source must provide 12 (24) volts DC, and the power source must provide enough current (i.e., 46 (23) amps to operate the load of 560 Watts or under).

Caution: This inverter must only be connected to batteries with a nominal output voltage of 12 (24) volts. Lower voltage will not operate the inverter properly, and more voltage could damage the inverter or the device being powered. If more than one 12 (24) volt battery is to be used, the batteries must be connected in a parallel circuit; 12 (24) volt batteries connected in a series circuit will produce too much voltage.

1. Place the Power Inverter on a flat surface. Make sure it has adequate ventilation and is not in direct sunlight. Fasten the inverter securely to the surface, using screws or some other means. If holes are to be drilled, follow safe, proper installation techniques.
2. Connect the Battery Cable(not included; 1 / 0AWG (1 / 0) recommended) lugs to the (Positive) red and (Negative) black terminals on the back of the Inverter, see *BACK* above. Connect the Ground Cable (not included; #2 AWG or larger cable recommended) lug to the Ground terminal, see *BACK* above. Securely tighten For 24Vdc model it is ok to use 4 Awg wire to the batteries.
3. The Power Inverter can be used either while the engine is running or off. Connect the Battery Cables (not included) to the Negative (black) and Positive (red) terminals of the battery.
4. Connect the Ground Cable to an earth ground, such as a metal water pipe or to the vehicle's ground when used in a vehicle.

FRONT



Operation

Warning: NEVER operate this inverter unless it is properly grounded.

1. Plug the 115 VAC device(s) you wish to power into the 3-prong AC Receptacles. See *FRONT* above. The appliance(s) must not use more than 2500 (total) watts during continuous operation, otherwise it may overload the Inverter.

Caution: 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. You should consider using a Pure Sine Wave Inverter instead.

2. Flip the Power Switch to the On (I) position to turn on. Do not use the appliance until the Display LED indicator is on.
3. Turn on appliance. If an alarm sound is heard, turn off the appliance.

Caution: It is recommended that the vehicle be started every hour to recharge the battery system. 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 (see *Warning* # 21 on page 4), do not run the vehicle's engine within an enclosed area.

4. After use, disconnect the appliances, flip the Power Switch to the Off (O) position.