

INSTRUCTIONS FOR OPERATION

Basic Operation

- Make sure the inverter is damage free and appears to be in good condition. Make sure the battery you plan to use is 12Vdc and not higher than 15Vdc.
- Verify inverter's power switch is OFF. Connect Red (+) battery cable to Red (+) inverter post. Connect Black (-) battery cable to Black (-) inverter post.
- Next we recommend to connect the Red (+) battery cable to the Red (+) on the battery. Last step may cause a spark if inverter is fully discharged, so ensure no flammables are near.
- Finally connect the Black (-) of cable to the Black (-) battery post. Battery clips may be used instead of bolt on cables. Never clip to inverter. Only clip on to battery terminal.
- Turn inverter on. Green light should be on and Red should not. No buzzing should be heard.
- It is now time to use your new inverter. Turn it off, plug in your equipment rated at 800W or less. Turn off your equipment. Turn inverter on, and finally turn on your equipment.

Special Recommendations

- Unplug the AC Inverter when it is not in use.
- Unplug the AC Inverter when starting the vehicle's motor.
- If the AC Inverter makes a beeping sound, turn off your appliance, and unplug the Inverter, and restart the engine in your vehicle. The beeping sound may simply be the low-battery warning which indicates that the voltage of your battery is getting low. If you do not re-start your engine and continue operating the Inverter, the Inverter will automatically shut off, leaving your vehicle's battery at about 10.5 VDC. This may enable you to start your engine and resume operation of the Inverter. It also reduces the fear of being stranded with a dead battery.

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Measuring The AC Voltage

- The output waveform of the AC inverter is a MODIFIED SINEWAVE. If you choose to measure the AC output voltage, you must use a TRUE RMS VOLT METER. Using any other type of voltage measuring device will result in an AC voltage reading of 20 to 30 volt lower than the rated value. When using a true RMS volt meter, you will get an accurate reading.

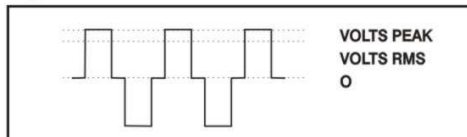


FIGURE 1: D/A INVERTER-MODIFIED SINEWAVE

Operating a TV Monitor or TV/VCR Combo

- Picture tubes have a degaussing coil which uses a high initial surge of power to light up the screen from a "cold start". If the TV does not start up on the first try, switch the TV on every 2-3 seconds until the screen comes on. Some screens may take 2-5 tries before starting.

SAFETY PRECAUTIONS

- Do not open the case of the Inverter. The high voltage inside the unit is the same type of power as your electrical outlets at home.
- Do not let the cord of the Inverter or any appliance cord get wet. If you are operating the Inverter in a moving vehicle, we recommend that

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DC TO AC POWER

INVERTER PWRINV800W

INSTRUCTION MANUAL

Battery Use

- To avoid over-discharging your vehicle's battery, we recommend running your engine for 10-20 minutes to recharge the vehicle's battery after every 2-3 hours of operating the AC Inverter.
- If you choose to use an adapter to connect the AC Inverter directly to your battery terminals, it is important to connect the "+" wire to the "+" terminal and the "-" wire to the "-" terminal.

IF YOU CONNECT THE WIRES TO THE INCORRECT TERMINALS, YOU WILL REVERSE THE POLARITY AND DAMAGE THE INVERTER. REVERSED POLARITY WILL INSTANTLY VOID THE WARRANTY OF YOUR INVERTER, SO BE CAREFUL TO CONNECT YOUR INPUT WIRES PROPEPLY.

- If you choose to operate a battery charger to replenish your battery's voltage, be sure to disconnect the AC Inverter first. Failure to disconnect the Inverter prior to connecting a charger may result in an input spike which may damage the Inverter.

CONNECTING THE INVERTER'S INPUT TO A BATTERY CHARGER WILL VOID THE WARRANTY, AND MAY DAMAGE THE INVERTER.

- Make sure that the battery's voltage does not exceed 15 volts DC. CONNECTING THE INVERTER TO A DC POWER SOURCE GREATER THAN 15 VDC WILL VOID THE WARRANTY, AND MAY DAMAGE THE INVERTER.

Adding Extension Cords

- We recommend that you refrain from using an extension cord between the DC power source and the DC input of the Inverter. An extension cord on the DC input will create a voltage drop which results in a reduction of efficiency and output. Instead, we recommend the use of an extension cord between the AC output and AC appliance. You may use up to 100 ft. of high-quality extension cord. A longer cord may result in reduced output.
- The Inverter is supplied with DC power leads : fitted with crocodile clips.

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- (6) Low-battery shutdown
Recharge your battery and resume operation.

MAINTENANCE

Very little maintenance is required to keep your Inverter operating properly. You should disconnect input power first and then clean the exterior of the unit periodically with a cloth to prevent accumulation of dust and dirt. At the same time, tighten the screws on the DC input terminals.

SPECIFICATIONS

MODEL NO :	PWRINV800W
DC Input Voltage	12V (10-15V)
Output Wave Form	Modified Sinewave
Output Power	800W
Surge Power Capacity	2400W
Efficiency	Over 90%
No Load Current	< 0.6A
Battery Low Alarm	DC 10.5 ± 0.5V
Battery Low Shutdown	DC 9.5 ± 0.5V
Alarm And Thermal Shutdown (Automatic Recovery)	60 ± 5°C
Internal DC Input Fuse	Must Be Fitted, Use 25A*4 Maximum
Power Switch	DC Input ON/OFF Control
Dimensions (LxWxH)	230x97x56mm
Net Weight	990g

AC Output voltage : 120V
Output frequency : 60Hz

you secure the Inverter to prevent it from shifting around while the vehicle is moving.

- Do not operate this Inverter in or around water. Water can damage the Inverter, and water damage is not covered under warranty. Also, do not operate the Inverter with wet hands. The AC voltage of the unit makes it an electrical shock hazard if operated with wet hands.
- Allow at least one inch of clearance around the Inverter for air flow. Ensure the ventilation openings on the rear and bottom of the unit are not obstructed.
- Do not connect the AC Inverter directly to another AC power source. Damage will result, and such damage will void the Inverter's warranty.
- Know the wattage requirements of your appliance. Use only those appliances which are limited by the capacity of this unit.
- Use common sense. This device produces power just like your wall outlets at home and should be treated seriously. Keep it away from children.
- Wrongly plugging AC power outlet LINE/NEUTRAL will void the warranty.
- If there is anything wrong with the Inverter, disconnect all of the power and contact our tech support.

TROUBLESHOOTING

If the Inverter does not appear to be functioning properly, check the following possible causes.

- (1) Poor contact
Clean contacts thoroughly.
- (2) Receptacle has no power
Check receptacle wiring. Repair if necessary.
- (3) Battery voltage is too low
Start the engine to recharge the battery. Replace battery if needed.
- (4) Shuts down on overload
Reduce the wattage of your load.
- (5) Thermal shutdown
Under heavy loads for extended periods of time, the AC Inverter will shut down to prevent damage from excess heat. Simply reduce your load and allow the Inverter to cool down.

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.