

OLTEANP OLTEANP

OLTEANP 3500W/7000W Pure Sine Wave Power Inverter User Manual

Model: OLTEANP

1. INTRODUCTION

Thank you for choosing the OLTEANP 3500W/7000W Pure Sine Wave Power Inverter. This device is designed to convert 12V DC power from your vehicle's battery into 230V AC power, suitable for a wide range of electronic devices and household appliances. With a continuous output of 3500W and a peak power of 7000W, it provides stable and reliable electricity for your needs, whether you are on RV camping trips, road trips, or living in a van. This manual provides essential information for the safe and efficient operation of your inverter.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before installing or operating the inverter. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- **Ventilation:** Ensure adequate ventilation around the inverter. Do not install in a confined space or cover the ventilation openings.
- **Moisture:** Do not expose the inverter to rain, water, or any liquids.
- **Heat:** Keep the inverter away from direct sunlight, heat sources, and flammable materials.
- **Electrical Connections:** Ensure all DC and AC connections are tight and correctly polarized. Loose connections can cause overheating and fire.
- **Grounding:** The inverter must be properly grounded. Connect the grounding terminal to a suitable earth ground.
- **Load Capacity:** Do not exceed the inverter's rated continuous power output (3500W) or peak power (7000W). Overloading can damage the inverter and connected appliances.
- **Children:** Keep the inverter out of reach of children.
- **Maintenance:** Only qualified personnel should service the inverter. There are no user-serviceable parts inside.
- **Spark Protection:** The inverter is equipped with a professional spark protection circuit that automatically stops output if connections are improper or a short circuit occurs.

Figure 2.1: Multifunctional Safety Protection features of the OLTEANP Inverter, including safeguards against high voltage, overload, high temperature, low voltage, and short circuits, managed by an intelligent chip.

3. PRODUCT OVERVIEW

The OLTEANP Pure Sine Wave Power Inverter is designed for robust performance and user convenience. It features multiple output ports and an intuitive remote control for easy monitoring and adjustment.

3.1 Key Features

- **Pure Sine Wave Output:** Provides clean and stable power, safe for sensitive electronics.
- **High Power Output:** 3500W continuous, 7000W peak power.
- **Multiple Output Ports:** Two 230V AC outlets, one 5V/3.1A USB port, and one 30W Type-C port.
- **LCD Remote Control:** For convenient monitoring and troubleshooting from a distance.
- **Adjustable Input Voltage:** Allows setting the low voltage cut-off (9.5V-16V) for compatibility with various battery types, including lithium batteries, and to extend battery life.
- **Comprehensive Protection:** Includes high/low voltage, overload, overheat, short circuit, and spark protection.

3.2 Component Identification



Figure 3.1: AC and DC Side Components. This image highlights the 3.1A USB port, LED indicator, remote control port, ON/OFF switch, two 230V AC output sockets, 30W Type-C port, grounding terminal, negative terminal, intelligent cooling fan, and positive terminal.

4. SETUP

Proper setup is crucial for the safe and efficient operation of your inverter.

4.1 Mounting the Inverter

- Choose a dry, well-ventilated, and cool location.
- Mount the inverter horizontally or vertically using appropriate fasteners.
- Ensure at least 15 cm (6 inches) of clear space around the inverter for proper airflow.

4.2 DC Input Connection

1. Ensure the inverter's ON/OFF switch is in the 'OFF' position.
2. Connect the positive (+) cable (red) from your 12V battery to the positive (+) terminal on the inverter.
3. Connect the negative (-) cable (black) from your 12V battery to the negative (-) terminal on the inverter.
4. Ensure all connections are secure and tight to prevent voltage drops and overheating.

4.3 Grounding

Connect the grounding terminal on the inverter to a reliable earth ground point in your vehicle or system. Use a heavy-gauge wire for this connection.

4.4 Adjustable Input Voltage Function

The inverter features an adjustable input voltage function to optimize battery health and extend its life, especially with lithium batteries. **This adjustment must be made when the inverter is OFF.**



Figure 4.1: Selectable Input Voltage Settings. This image illustrates various battery types compatible with the inverter and a table detailing low voltage shutdown thresholds based on DIP switch configurations.

Refer to the table on the inverter or in Figure 4.1 to set the desired low voltage shutdown point using the DIP switches. This feature helps prevent over-discharge of your battery.

4.5 Remote Control Connection

Connect the remote control cable to the designated port on the inverter. This allows you to monitor and control the inverter from a convenient location.

5. OPERATING INSTRUCTIONS

Once the inverter is properly installed and connected, you can begin operation.

5.1 Powering On/Off

1. Ensure all DC connections are secure.
2. Flip the ON/OFF switch on the inverter to the 'ON' position. The LED indicator will illuminate.
3. To power off, flip the ON/OFF switch to the 'OFF' position.

5.2 Connecting AC Appliances

Plug your 230V AC appliances into the two AC outlets on the inverter. For charging mobile devices, use the 5V/3.1A USB port or the 30W Type-C port.



Figure 5.1: Inverter powering various appliances. This image shows the 3500W Pure Sine Wave Inverter providing power to a toaster, coffee maker, and tablet via its AC outlets, USB, and Type-C ports.

5.3 Using the LCD Remote Control

The remote control provides real-time information about the inverter's status and allows for easy troubleshooting.



Figure 5.2: LCD Remote Control Display. The display shows battery charge level, DC input voltage, AC output voltage, current power consumption, and indicators for overheat and overload conditions. Flashing icons indicate specific issues.

- **Battery Status:** Displays the current battery charge level.
- **DC Input:** Shows the input voltage from the battery.
- **AC Output:** Displays the output AC voltage (230V) and frequency (50Hz).
- **Power Consumption:** Indicates the current wattage being drawn by connected appliances.
- **Error Indicators:** Icons for Overheat and Overload will flash to alert you of specific problems.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your inverter.

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Do not use liquids or abrasive cleaners.
- **Ventilation:** Ensure the cooling fans and ventilation openings are free from dust and debris. Blocked vents can lead to overheating.
- **Connections:** Regularly check all DC and AC connections to ensure they remain tight and free from corrosion. Loose connections can cause power loss and heat buildup.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.

7. TROUBLESHOOTING

The LCD remote control provides diagnostic information to help identify and resolve common issues.

Problem	Possible Cause	Solution
No Power Output	Inverter OFF, loose DC connections, low battery voltage, blown fuse.	Turn inverter ON. Check DC cables and terminals for tightness. Charge battery. Check external fuses (if applicable).
Overload Indicator Flashing	Connected appliance draws too much power (exceeds 3500W continuous).	Disconnect some appliances. Reduce total load to below 3500W. Restart inverter.
Overheat Indicator Flashing	Inverter is too hot due to poor ventilation or high ambient temperature.	Ensure proper ventilation. Clear any obstructions from fans/vents. Allow inverter to cool down. Reduce load.
Low Voltage Indicator Flashing	Battery voltage is below the set low voltage shutdown threshold.	Charge the battery. Check battery connections. Adjust low voltage setting if necessary (when inverter is OFF).
High Voltage Indicator Flashing	Input voltage exceeds 16V.	Check the charging system of your vehicle. Disconnect inverter if voltage remains too high.
Spark Protection Activated	Improper wiring or short circuit detected.	Immediately disconnect power. Inspect all wiring for correct polarity and shorts. Correct wiring before reconnecting.

8. SPECIFICATIONS

Feature	Specification
Brand	OLTEANP
Model	OLTEANP
Input Voltage	12 Volts DC
Output Voltage	230 Volts AC
Continuous Output Power	3500 Watts
Peak Output Power	7000 Watts
Output Waveform	Pure Sine Wave
Total Power Outlets	2 AC Outlets
USB Port	5V/3.1A
Type-C Port	30W
Display Type	LCD (on remote control)
Item Weight	5.95 Kilograms
Parcel Dimensions	44 x 29 x 15 cm
Power Source Type	Battery Powered

Feature	Specification
Recommended Use	Car, Motorhomes, Caravans

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact the manufacturer, OLTEANP, or your authorized seller. Keep your purchase receipt as proof of purchase for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question