

EXTRALINK OPIP-500W

EXTRALINK OPIP-500W Pure Sine Wave Power Inverter 12V to 230V User Manual

Model: OPIP-500W

1. INTRODUCTION

This manual provides instructions for the safe and efficient operation of the EXTRALINK OPIP-500W Pure Sine Wave Power Inverter. This device converts 12V DC power from a battery into 230V AC power, suitable for powering standard household appliances. With a continuous output of 500W and a peak power of 1000W, it is designed for various applications, including use in vehicles, RVs, boats, and off-grid systems. The pure sine wave output ensures compatibility with sensitive electronic devices and motor-driven equipment, offering stable and reliable power.

Image Description: This image shows the EXTRALINK OPIP-500W Pure Sine Wave Power Inverter placed outdoors, with text highlighting its pure sine wave technology for efficient 12V to 230V AC conversion.

2. SAFETY INSTRUCTIONS

Before operating the inverter, read and understand all safety warnings and instructions. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Ventilation:** Ensure the inverter is placed in a well-ventilated area. Do not block the cooling fan or vents.
- **Moisture:** Do not expose the inverter to water, rain, or spray. Operate only in dry conditions.
- **Heat:** Keep the inverter away from direct sunlight, heat sources, and flammable materials.
- **Connections:** Connect the inverter only to a 12V DC power source. Ensure correct polarity (positive to positive, negative to negative). Loose connections can cause overheating.
- **Overload:** Do not exceed the inverter's rated continuous power output of 500W. Appliances with high starting currents (e.g., motors) may exceed the peak power rating.
- **Servicing:** Do not attempt to open or modify the inverter. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- **Children:** Keep the inverter out of reach of children.

3. PRODUCT OVERVIEW

The EXTRALINK OPIP-500W Pure Sine Wave Power Inverter is designed for reliability and ease of use. It features a robust casing and essential ports for power conversion and device charging.

Key Components:

- **DC Input Terminals:** Red for positive (+), Black for negative (-). Connect to a 12V DC battery.
- **AC Output Socket:** Standard 230V AC outlet for connecting appliances.
- **USB Port (2.1A):** For charging USB-compatible devices.
- **ON/OFF Switch:** Controls the power to the inverter.
- **Power/Fault Indicators:** Lights to show operational status or error conditions.
- **Cooling Fan:** Automatically activates to dissipate heat and maintain optimal operating temperature.

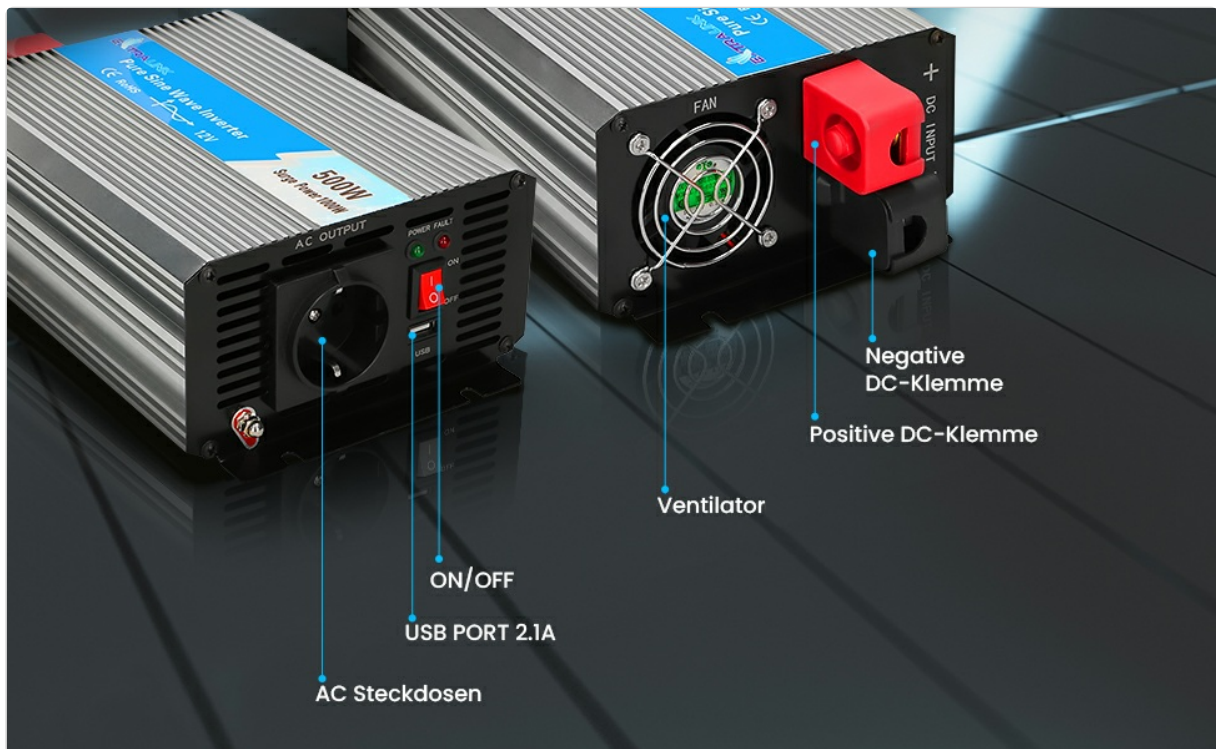


Image Description: This image displays the EXTRALINK OPIP-500W Pure Sine Wave Power Inverter from both front and rear perspectives. The front panel shows the AC output socket, the ON/OFF switch, and the USB 2.1A port. The rear panel highlights the positive DC terminal (red), negative DC terminal (black), and the cooling fan. Power and fault indicator lights are also visible on the front.

4. SETUP

Follow these steps to properly set up your EXTRALINK OPIP-500W inverter:

1. **Placement:** Choose a dry, cool, and well-ventilated location for the inverter. Ensure there is sufficient space around the unit for airflow, especially around the cooling fan.
2. **Battery Connection:**
 - Ensure the inverter's ON/OFF switch is in the 'OFF' position.
 - Connect the red cable (positive) from the inverter's positive DC terminal to the positive terminal of your 12V battery.
 - Connect the black cable (negative) from the inverter's negative DC terminal to the negative terminal of your 12V battery.
 - Tighten all connections securely to prevent voltage drops and overheating.

3. **Initial Check:** After connecting, double-check all connections for correct polarity and tightness.

5. OPERATING INSTRUCTIONS

To operate the EXTRALINK OPIP-500W inverter:

- Power On:** Once the inverter is securely connected to the battery, switch the ON/OFF button on the inverter to the 'ON' position. The power indicator light should illuminate, indicating the inverter is active.
- Connect AC Appliances:** Plug your 230V AC appliances into the AC output socket on the front panel. Ensure the total power consumption of your appliances does not exceed 500W continuously.
- Use USB Port:** For charging USB-compatible devices, connect them to the USB 2.1A port.
- Power Off:** When you are finished using the inverter, first disconnect all appliances, then switch the ON/OFF button to the 'OFF' position.

6. MAINTENANCE

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

- Cleaning:** Keep the inverter's exterior clean and free from dust and debris. Use a dry cloth for cleaning. Do not use liquids or solvents.
- Ventilation:** Periodically check that the cooling fan and ventilation openings are clear and unobstructed. Dust accumulation can impair cooling efficiency.
- Connections:** Regularly inspect battery cable connections for corrosion, wear, or looseness. Clean corroded terminals and tighten loose connections.
- Storage:** If storing the inverter for an extended period, ensure it is clean, dry, and disconnected from the battery. Store in a cool, dry place.

7. TROUBLESHOOTING

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
Inverter does not turn on.	Loose battery connections, discharged battery, incorrect polarity.	Check and tighten battery connections. Recharge or replace the battery. Verify correct polarity.
No AC output.	Overload, short circuit, low battery voltage, inverter fault.	Reduce the load. Check for short circuits in appliances. Recharge battery. If fault persists, contact support.
Inverter shuts down frequently.	Overheating, overload, low battery voltage.	Ensure adequate ventilation. Reduce load. Recharge battery.
Fan runs constantly or loudly.	High internal temperature, heavy load.	This is normal under heavy load or high ambient temperatures. Ensure vents are clear.

8. SPECIFICATIONS

The following table details the technical specifications of the EXTRALINK OPIP-500W Pure Sine Wave Power Inverter:

Feature	Specification
Model Number	OPIP-500W
Input Voltage	12V DC
Output Voltage	230V AC
Continuous Output Power	500W
Peak Output Power	1000W
Output Waveform	Pure Sine Wave
USB Output	2.1A
Efficiency	High Efficiency
Certifications	CE



Image Description: This image shows the EXTRALINK OPIP-500W Pure Sine Wave Power Inverter alongside a visual representation of its key specifications, including 12V input, 230V output, 500W power, pure sine wave, built-in fan, DC/AC conversion, and a USB port.

9. WARRANTY AND SUPPORT

The EXTRALINK OPIP-500W Pure Sine Wave Power Inverter is covered by a 36-month warranty from the date of purchase. This warranty covers manufacturing defects and ensures reliable operation under normal use.

Warranty Claims:

In the event of a warranty claim, please retain your proof of purchase. Contact the retailer from whom you

purchased the product or visit the official EXTRALINK website for detailed warranty terms and support procedures.

Technical Support:

For technical assistance, troubleshooting guidance, or any questions regarding the operation of your inverter, please refer to the contact information provided by your retailer or on the EXTRALINK official support channels.