

FONOBO 6000W-110V

FONOBO 6000W 110V Pure Sine Wave Power Inverter User Manual

Model: 6000W-110V

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your FONOBO 6000W 110V Pure Sine Wave Power Inverter. Please read these instructions carefully before use and retain them for future reference. This device converts 12V DC power from a battery into 110V AC power, suitable for various applications including vehicles, RVs, boats, and solar power systems.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage, the FONOBO Power Inverter incorporates multiple protection features. Adhere to all safety warnings and instructions.

Integrated Safety Protection Functions:

- Reverse polarity protection
- Low input voltage protection
- High input voltage protection
- Over-current protection
- Short circuit protection
- Over temperature protection
- Overload protection
- Internal fuses

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x FONOBO Power Inverter (6000W 110V model)
- 2 x Battery Clip Cables
- 1 x Cigarette Lighter Plug Cable
- 1 x English User Manual



Image 1: The FONOBO 6000W 110V Power Inverter shown with its packaging box, battery clip cables, and cigarette lighter plug cable.

4. PRODUCT OVERVIEW AND FEATURES

The FONOBO Power Inverter is designed with user convenience and safety in mind, featuring a durable aluminum alloy shell and essential indicators.

Key Features:

- **LED Battery Display:** Shows battery capacity with five levels, each representing 20% of power. Flashes when battery is low.
- **Dual USB Ports:** For fast charging of mobile devices.
- **AC Outlet:** Standard 110V AC output for various appliances.
- **Multiple Protection:** Comprehensive safety features as listed in Section 2.
- **Cooling Fan:** Prevents overheating during operation.



Image 2: Front view of the FONOB 6000W 110V Power Inverter highlighting the LED battery display, multiple protection, red/green LED lights, and fast charging dual USB ports.



Image 3: Close-up view of the FONOBO 6000W 110V Power Inverter showing the plastic shell, universal socket, On/Off switch, dual USB ports, red fault light, green work light, battery capacity display, cooling fan, positive DC terminals, and negative DC terminals.



Image 4: Diagram illustrating the dimensions of the FONOBO 6000W 110V Power Inverter (20.5cm / 8.1in length, 11.7cm / 4.6in width, 5.8cm / 2.3in height), cigarette lighter plug cable (42.5cm / 16.7in), and battery clip cable (46.8cm / 18.4in).

5. SETUP

Follow these steps to properly set up your power inverter:

1. **Prepare the Power Source:** Ensure your 12V DC battery is fully charged and in good condition.
2. **Connect to Battery:**
 - Using the provided battery clip cables, connect the **RED (+)** cable to the positive terminal of the inverter and the positive terminal of the 12V battery.
 - Connect the **BLACK (-)** cable to the negative terminal of the inverter and the negative terminal of the 12V battery.
 - Ensure all connections are tight and secure to prevent arcing or overheating.

3. **Alternative Connection (Low Power Devices):** For lower power devices, you may use the cigarette lighter plug cable. Insert the plug into your vehicle's 12V cigarette lighter socket and connect the other end to the inverter's DC input. Note that the cigarette lighter connection has a lower power limit than direct battery connection.
4. **Placement:** Place the inverter in a well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure the cooling fan is not obstructed.

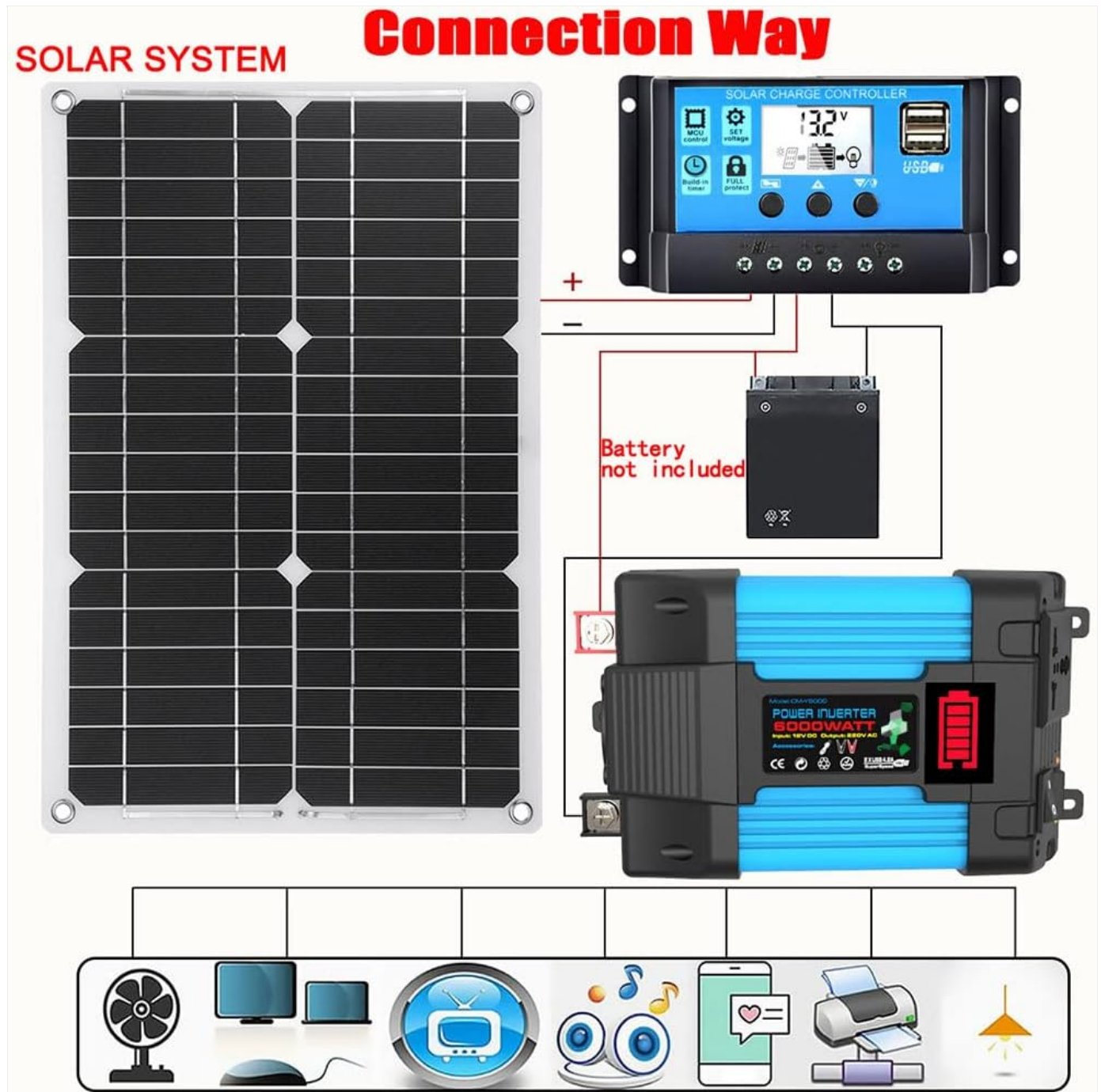


Image 5: A diagram illustrating a typical solar power system connection. It shows a solar panel connected to a solar charge controller, which then connects to a battery (not included). The FONOBO 6000W 110V Power Inverter is connected to the battery, providing AC power to various appliances such as a fan, monitor, TV, audio system, phone charger, printer, and lamp.

6. OPERATING INSTRUCTIONS

Once the inverter is properly set up, follow these steps for operation:

1. **Power On:** Flip the On/Off switch on the inverter to the 'On' position. The green work light should illuminate.

2. **Check LED Display:** Observe the LED battery display to monitor the remaining battery capacity. Each lattice represents 20% of the battery power. If the display flashes, the battery is low and requires charging.
3. **Connect Devices:** Plug your 110V AC appliances into the universal AC outlet. For USB-powered devices, use the dual USB ports. Ensure the total rated power of connected devices does not exceed the inverter's continuous power rating (300W/500W for this model, depending on specific variant, with 4000W/6000W peak power).
4. **Power Off:** When finished, first disconnect all appliances from the inverter, then flip the On/Off switch to the 'Off' position. Finally, disconnect the inverter from the 12V DC power source.

Understanding Modified Sine Wave Output:

This inverter produces a modified sine wave output. This waveform is suitable for most resistive loads (e.g., incandescent lights, heaters) and many electronic devices. However, some sensitive electronics, medical equipment (like CPAP machines), or devices with AC motors may require a pure sine wave inverter for optimal performance and to prevent potential damage. Always check the power requirements of your devices.



Image 6: This image illustrates various applications for the FONOB0 6000W 110V Power Inverter, including use with a CPAP machine, on a yacht, for camping, and in a truck. It also includes a diagram depicting the Modified Sine Wave output waveform.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your inverter:

- **Cleaning:** Keep the inverter clean and free from dust and debris. Use a dry cloth to wipe the exterior. Do not use liquid cleaners.
- **Ventilation:** Ensure the cooling fan and ventilation openings are clear and unobstructed.
- **Connections:** Periodically check all electrical connections (battery clips, cables) for tightness and corrosion. Clean any corrosion with a wire brush and baking soda solution.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place. Disconnect it from the battery.

8. TROUBLESHOOTING

If you encounter issues with your inverter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power output / Inverter not turning on	Loose battery connection, low battery voltage, blown fuse, inverter switch off.	Check battery connections, charge battery, check internal fuses, ensure switch is 'On'.
Red fault light on	Overload, over-temperature, high/low input voltage, short circuit.	Reduce load, allow inverter to cool, check battery voltage, inspect for short circuits.
Inverter shuts down	Overload, over-temperature, low battery voltage.	Reduce connected load, ensure proper ventilation, charge battery.
Fan not running	Normal operation (fan activates when temperature rises), fan malfunction.	If inverter is hot and fan is not running, contact support.

If the problem persists after attempting these solutions, please contact FONOBO customer support.

9. SPECIFICATIONS

Detailed technical specifications for the FONOBO 6000W 110V Power Inverter:

- **Model:** 6000W-110V
- **Input Voltage:** DC 10.5V~15V
- **Output Voltage:** AC 110V
- **Output Frequency:** 60Hz
- **Peaks Power:** 6000W
- **Rated Power:** 500W (Continuous)
- **Output Waveform:** Modified Sine Wave
- **Item Weight:** 2.2 pounds
- **Package Dimensions:** 8.66 x 5.91 x 3.94 inches

- **Manufacturer:** FONOBO

10. WARRANTY AND SUPPORT

FONOBO is committed to customer satisfaction. While specific warranty details are not provided in this manual, please retain your purchase receipt for any warranty claims.

Customer Support:

For any questions, concerns, or technical assistance, please contact FONOBO customer service. Our support team is available to assist you.

Contact us via Amazon email or through the official FONOBO website.

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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