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› FONOBO 2000W/2600W Power Inverter User Manual (Model: Inverter)

FONOBO Inverter

FONOBO 2000W/2600W Power Inverter User Manual

Model: Inverter

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your FONOBO 2000W/2600W Pure Sine Wave Power Inverter. This device converts 12V/24V DC power from a battery into 110V/220V AC household power, suitable for various applications including vehicles, camping, and solar systems. Please read this manual thoroughly before installation and use.



Image 1.1: FONOBO 2000W/2600W Pure Sine Wave Power Inverter. This image shows the front and side view of the inverter, highlighting its compact design and output capabilities.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Ensure the inverter is connected to a DC power source with the correct voltage (12V or 24V) as specified for your model. Incorrect voltage can damage the inverter and connected devices.
- Do not connect the inverter to an AC distribution wiring system.
- Avoid reverse polarity connections. Always connect the positive (+) terminal of the inverter to the positive (+) terminal of the battery, and the negative (-) terminal of the inverter to the negative (-) terminal of the battery.
- Do not expose the inverter to water, rain, snow, or spray.
- Operate the inverter in a well-ventilated area. Do not block the cooling fan or vents.
- Keep the inverter away from flammable materials, gases, or liquids.

- Do not open the inverter casing. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Ensure the total rated power of connected AC devices does not exceed the inverter's continuous rated power (1000W/1300W for this model).
- Disconnect the inverter from the battery when not in use to prevent battery discharge.

3. PRODUCT FEATURES AND OVERVIEW

The FONOBO Power Inverter is designed for reliability and efficiency, featuring:

- **Pure Sine Wave Output:** Provides clean power suitable for sensitive electronics, converting 12V/24V DC to 110V/220V AC.
- **Robust Construction:** Aluminum alloy housing for durability and heat dissipation.
- **Intelligent Cooling Fan:** Activates automatically when temperature exceeds 45°C or load exceeds 100W to prevent overheating.
- **Multiple Protection Functions:** Includes reverse polarity, low/high input voltage, over-current, short circuit, over-temperature, overload, and internal fuses.
- **LED Indicators:** Green LED for normal operation, Red LED for protection status.
- **LED Voltage Display:** Shows input voltage for monitoring.
- **AC Receptacles:** One AC outlet for connecting devices.



Image 3.1: Detailed view of the FONOBO Power Inverter components. This image labels the aluminum shell, LED input voltage display, AC receptacle, ON/OFF switch, power indicator light, fault indicator light, negative DC terminal, cooling fan, and positive DC terminal.

PURE SINE WAVE



2000W
DC 12V/24V → AC 220V / 110V
POWER INVERTER

Image 3.2: FONOBO Pure Sine Wave Inverter highlighting its output waveform. This image visually represents the pure sine wave output, indicating suitability for sensitive electronics.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your power inverter:

1. **Choose a Location:** Select a dry, cool, and well-ventilated area for the inverter. Ensure there is sufficient space around the unit for air circulation, especially around the cooling fan.
2. **Prepare the Battery:** Ensure your DC power source (battery) is fully charged and has the correct voltage (12V or 24V) for your inverter model.
3. **Connect DC Cables:**
 - Connect the red cable (positive) to the positive (+) terminal of the inverter and the positive (+) terminal of the battery.
 - Connect the black cable (negative) to the negative (-) terminal of the inverter and the negative (-) terminal of the battery.

PRODUCT SIZE



Accessories: For 12V/24V MODEL:



Image 4.2: FONOBO Power Inverter product size and included accessories. This image displays the inverter's dimensions (8.2in/21cm length, 2.3in/6cm width, 4.1in/10.5cm height) and the included battery clips and cigarette lighter plug.

5. OPERATING INSTRUCTIONS

Once the inverter is properly installed and powered on:

1. **Connect AC Devices:** Plug your AC appliances into the AC receptacle on the inverter. Ensure the total wattage of all connected devices does not exceed the inverter's continuous rated power (1000W/1300W).
2. **Monitor Indicators:**
 - The **Green LED** indicates normal operation.
 - The **Red LED** will light up if the inverter enters a protection state (e.g., overload, low voltage).
 - The **LED Voltage Display** shows the current DC input voltage from your battery.
3. **Cooling Fan Operation:** The intelligent cooling fan will automatically activate when the internal temperature exceeds 45°C or when the load exceeds 100W. This is normal operation and helps maintain optimal performance

and longevity of the inverter.

4. **Power Off:** When finished using the inverter, first switch off all connected AC appliances, then switch the inverter's ON/OFF switch to the "OFF" position. Disconnect the inverter from the battery if it will not be used for an extended period.



Image 5.1: Illustration of the FONOBO Power Inverter's smart cooling fan. This image shows the fan's location and explains that it operates when the temperature exceeds 45°C or the load exceeds 100W.

WIDE APPLICATION



Image 5.2: Examples of wide applications for the FONOBO Power Inverter. This image displays various uses such as powering home appliances, outdoor monitoring, outdoor construction, photovoltaic off-grid solar power systems, unattended agricultural electricity, and electricity for RVs.

6. MAINTENANCE

To ensure the longevity and optimal performance of your FONOBO Power Inverter, follow these maintenance guidelines:

- **Keep Clean:** Regularly clean the exterior of the inverter with a dry, soft cloth. Do not use liquids or abrasive cleaners.
- **Check Connections:** Periodically inspect all DC cable connections to ensure they are tight and free from corrosion. Loose connections can cause overheating and damage.
- **Ventilation:** Ensure the cooling vents and fan are free from dust and obstructions. Blocked vents can lead to overheating.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place away from direct sunlight and moisture.

7. TROUBLESHOOTING

The FONOBO Power Inverter includes multiple protection features. If the Red LED lights up or the inverter stops functioning, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Inverter not turning on (no LEDs)	<ul style="list-style-type: none">Loose DC connectionsBattery voltage too lowInverter switch OFFBlown internal fuse	<ul style="list-style-type: none">Check and tighten all DC cable connections.Charge or replace the battery.Ensure the ON/OFF switch is in the "ON" position.Contact customer support; do not attempt to replace fuses yourself.
Red LED lights up (Fault Indicator)	<ul style="list-style-type: none">Overload protectionOver-temperature protectionLow/High input voltage protectionShort circuit protectionReverse polarity protection	<ul style="list-style-type: none">Reduce the total load by disconnecting some appliances.Allow the inverter to cool down. Ensure proper ventilation.Check battery voltage; charge if low, or ensure it's not excessively high.Disconnect all AC loads and restart. Check for faulty appliances.Immediately disconnect from battery and correct polarity.
No AC output	<ul style="list-style-type: none">Inverter in protection modeAppliance faultLoose AC connection	<ul style="list-style-type: none">Refer to "Red LED lights up" solutions above.Test the appliance with a known working AC source.Ensure AC plugs are fully inserted into the inverter's receptacle.

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

8. SPECIFICATIONS

Feature	Detail
Model	Inverter
Input Voltage	DC 10.5V~15V (for 12V systems) / DC 21V~30V (for 24V systems)
Output Voltage	AC 220V / 110V (depending on model)
Output Frequency	50Hz (for 220V) / 60Hz (for 110V)
Continuous Rated Power	1000W / 1300W (depending on model)
Peak Power	2000W / 2600W (depending on model)
Output Waveform	Pure Sine Wave (<3% THD)
Maximum AC Current per socket	8.33 Ampere

Feature	Detail
Protection Features	Reverse polarity, Low/High input voltage, Over-current, Short circuit, Over temperature, Overload, Internal fuses
Cooling	Intelligent Cooling Fan (temperature/load controlled)
Dimensions (approx.)	21cm (8.2in) L x 6cm (2.3in) W x 10.5cm (4.1in) H
Certifications	FCC, UL, ETL

Note: Specifications are subject to change without notice. Please refer to the product label for the exact specifications of your unit.

9. WARRANTY AND SUPPORT

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

For technical support, troubleshooting assistance, or any inquiries regarding your FONOBO Power Inverter, please contact our customer service team. You can reach us via Amazon email or through our official website. Our support team is available to assist you.

We value your feedback and are dedicated to providing excellent service.

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

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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

