

ETREPOW LT30PEU24

ETREPOW 3000W Pure Sine Wave Inverter 24V to 220V User Manual

Model: LT30PEU24

1. INTRODUCTION

This manual provides instructions for the safe and efficient operation of your ETREPOW 3000W Pure Sine Wave Inverter. This device converts 24V DC power to 220V/230V AC pure sine wave power, suitable for sensitive electronics and various household appliances.

2. SAFETY INSTRUCTIONS

Read all safety warnings and instructions before operating this inverter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the inverter is connected to a 24V DC power source only. Connecting to a different voltage may damage the unit.
- Do not reverse polarity when connecting battery cables. Connect positive (+) to positive (+) and negative (-) to negative (-).
- Operate the inverter in a well-ventilated area. Do not block cooling vents.
- Keep the inverter away from water, moisture, and flammable materials.
- Do not open the inverter casing. There are no user-serviceable parts inside.
- Disconnect the inverter from the power source before performing any maintenance or cleaning.
- Ensure the total power consumption of connected appliances does not exceed the inverter's continuous power rating (3000W).

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- ETREPOW 3000W Pure Sine Wave Inverter
- Battery Connection Cables (1 set)
- Wireless Remote Control (1 unit)
- Spare Fuses (1 set)
- User Manual

Accessories Display

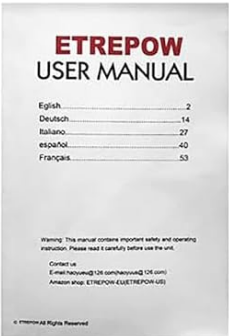
				
Protective Case*1	Fuses*4	Battery Cables*2	Remote Control*1	Manual*1



Image 3.1: Inverter and included accessories, including battery cables, remote control, and spare fuses.

4. PRODUCT OVERVIEW

The ETREPOW 3000W Pure Sine Wave Inverter features a robust design for reliable power conversion. Key components and features are detailed below:

- **Pure Sine Wave Output:** Provides stable power suitable for sensitive electronics.
- **LCD Display:** Shows DC input voltage, AC output voltage, load operating power, and battery level.
- **Wireless Remote Control:** Allows convenient operation from a distance.

- **Multiple Protections:** Includes over-voltage, under-voltage, overload, short-circuit, and overheating protection.
- **Smart Cooling Fan:** Activates automatically when the internal temperature exceeds 45°C.
- **Replaceable Fuses:** For enhanced safety and ease of maintenance.



Image 4.1: Front panel showing AC receptacles, USB ports, ON/OFF switch, power indicator, and ground terminal. Rear panel showing negative and positive DC terminals and cooling fans.



Image 4.2: The inverter's digital display showing output wattage, and the wireless remote control.

5. SETUP

- 1. Prepare the Power Source:** Ensure your 24V DC battery or solar system is fully charged and capable of providing the necessary current.
- 2. Position the Inverter:** Place the inverter on a stable, flat surface in a dry, well-ventilated area, away from direct sunlight and heat sources. Ensure adequate space around the unit for airflow.
- 3. Connect Battery Cables:**
 - Connect the red cable to the positive (+) terminal of the inverter and the positive (+) terminal of the 24V battery.
 - Connect the black cable to the negative (-) terminal of the inverter and the negative (-) terminal of the 24V battery.
 - Ensure all connections are tight and secure to prevent loose connections and sparking.
- 4. Grounding:** Connect the ground terminal on the inverter to a proper earth ground.
- 5. Initial Power On:** After securing all connections, switch the inverter's power button to the 'ON' position. The LCD display should illuminate, and the power indicator light should turn on.



Image 5.1: Illustrates the connection of a solar panel, charge controller, 12V battery (note: this inverter requires 24V), and the inverter to provide power for household appliances.

6. OPERATING INSTRUCTIONS

1. **Powering On/Off:** Use the ON/OFF switch on the inverter's front panel to turn the unit on or off. When using the wireless remote control, ensure the inverter's main switch is in the 'OFF' position before activating the remote.
2. **Connecting Appliances:** Plug your 220V/230V AC appliances into the AC receptacles on the inverter. For USB-powered devices, use the 2.1A USB ports.
3. **Monitoring the LCD Display:** The LCD provides real-time information:
 - **DC IN:** Displays the input voltage from your battery.
 - **Frequency:** Shows the output frequency (50 Hz).
 - **AC OUT:** Indicates the output AC voltage.
 - **LOAD:** Displays the current power consumption of connected devices in Watts.
 - **BAT:** Shows the battery level.
4. **Load Management:** Avoid exceeding the inverter's continuous power rating of 3000W. For appliances with high startup (peak) power requirements, ensure the peak power does not exceed 6000W.

SMART LCD DISPLAY

- ▶ DC Input Voltage
- ▶ AC Output Voltage
- ▶ Load operating power
- ▶ Battery Level

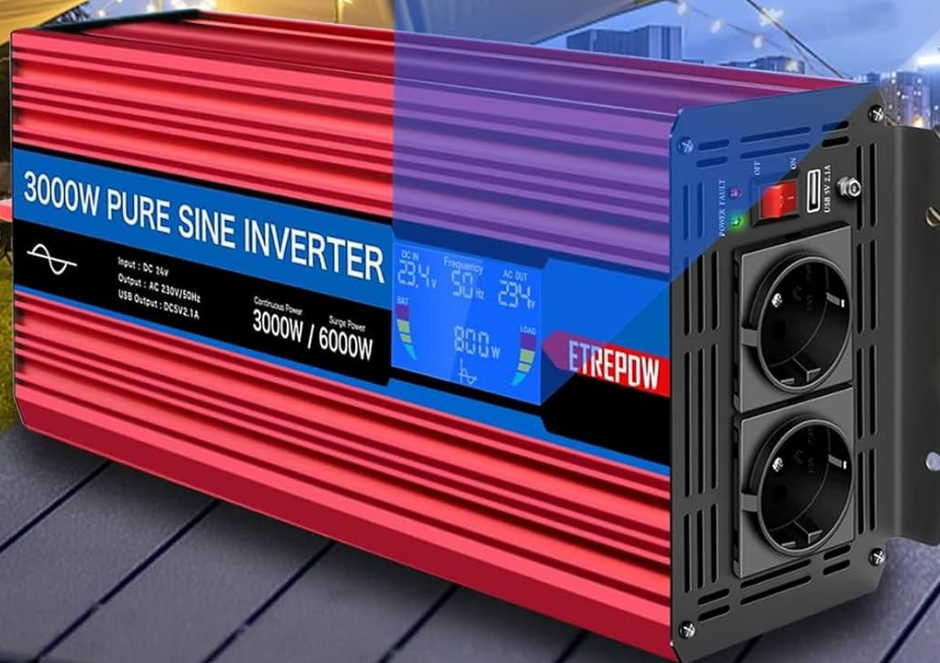


Image 6.1: The LCD display provides real-time operational data.

Remote control

The remote wireless remote control is one-key switch, which is more convenient to use, allowing you to control your inverter at any time



Image 6.2: The wireless remote control allows for convenient power management.

7. MAINTENANCE

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Ensure cooling vents are free from dust and debris.
- **Fan Operation:** The intelligent cooling fan operates only when the internal temperature exceeds 45°C. This is normal operation and helps maintain optimal performance.
- **Fuse Replacement:** The inverter is equipped with replaceable fuses. If a fuse blows, replace it with a fuse of the same type and rating (e.g., 70A as suggested by some users for high-power applications, though 20A fuses are supplied). Consult a qualified technician if unsure.
- **Cable Connections:** Regularly check battery cable connections for tightness and corrosion. Clean any corrosion with a wire brush.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your inverter.

Problem	Possible Cause	Solution
Inverter does not turn on.	Loose battery connections, low battery voltage, blown fuse, internal fault.	Check battery connections. Ensure battery voltage is sufficient (above 22V for 24V system). Replace blown fuses. If problem persists, contact support.
Inverter beeps continuously or intermittently.	Overload, over-voltage, under-voltage, overheating, short-circuit.	Reduce connected load. Check battery voltage. Ensure proper ventilation. Disconnect appliances and restart.
No AC output.	Inverter off, low battery, overload, internal fault.	Turn inverter on. Check battery voltage. Reduce load. Contact support if necessary.
Inaccurate power consumption display.	Very low power consumption (below 20W) may not be accurately displayed. Discrepancies can occur with certain loads.	This is often a display characteristic for very low loads. For higher loads, if significant discrepancy persists, ensure connections are secure and contact support.
Inverter shuts down.	Activation of protection mechanisms (overload, over-temperature, low/high voltage).	Identify and resolve the cause (e.g., reduce load, improve ventilation, charge battery). Restart the inverter.

9. SPECIFICATIONS

Feature	Specification
Brand	ETREPOW
Model Name	LT30PEU24
Continuous Power Output	3000 Watts
Peak Power Output	6000 Watts
Input Voltage	24 Volts DC
Output Voltage	230 Volts AC
Output Waveform	Pure Sine Wave
Frequency	50 Hz
Display Type	LCD
Number of AC Outlets	2
USB Output	2.1A (2 ports)
Dimensions (L x W x H)	42.6L x 16.5W x 11H centimeters
UPC	750440490274

Feature	Specification
ASIN	B08NP66DG3

10. WARRANTY AND SUPPORT

ETREPOW provides the following for this product:

- **Warranty:** A one-year free replacement warranty against manufacturer defects.
- **Customer Service:** 24-hour customer service is available.
- **Technical Support:** Technical assistance is provided for questions regarding machine usage or performance.

For any inquiries or support needs, please contact ETREPOW customer 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

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