

LVYUAN 1500WLED

LVYUAN 1500W Car Power Inverter User Manual

Model: 1500WLED

1. PRODUCT OVERVIEW

The LVYUAN 1500W Car Power Inverter converts 12V DC power from your vehicle's battery into 110V AC household power. It provides 1500 Watts of continuous modified sine wave power and can handle surge power up to 3000 Watts. This inverter is equipped with two standard US AC outlets and two USB ports for versatile charging and powering of various electronic devices.

Key features include:

- **Powerful Output:** 1500W continuous, 3000W peak power.
- **High Efficiency:** Conversion efficiency greater than 85%.
- **Intelligent LCD Display:** Shows input/output voltage, battery capacity, load capacity, and error codes for easy monitoring.
- **Multi-Protection System:** Includes 4 replaceable fuses and protections against overload, short circuit, over-temperature, reverse polarity, under-voltage, and over-voltage.
- **Durable Design:** Robust aluminum alloy body with a built-in intelligent temperature control cooling fan.



Image 1.1: Overview of the LVYUAN 1500W Power Inverter highlighting its features like 1500W continuous power, 12V DC input, LCD display, modified sine wave, silent fan, smart chip, 2 US sockets, and 2 USB ports.

2. SETUP AND INSTALLATION

Follow these steps to properly set up your LVYUAN 1500W Car Power Inverter:

1. **Prepare the Inverter:** Ensure the inverter is placed on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
2. **Connect to 12V DC Power Source:**
 - **For Cigarette Lighter (up to 150W):** Insert the cigarette lighter plug into your vehicle's 12V accessory socket. Connect the other end to the inverter's DC input terminals, ensuring correct polarity (red to positive, black to negative).
 - **For Direct Battery Connection (full power):** Use the provided battery cables. Connect the red cable to the inverter's positive (+) terminal and the vehicle battery's positive (+) terminal. Connect the black cable to the inverter's negative (-) terminal and the vehicle battery's negative (-) terminal. Ensure connections are tight and secure.
3. **Power On:** Once connected, switch the inverter's power button to the 'ON' position. The LCD display should illuminate, indicating power.



Image 2.1: Detailed view of the inverter's AC side (2 AC outlets, ON/OFF switch, LED indicator, USB charging port) and DC side (positive port, cooling fan, negative port).



Image 2.2: Side view of the power inverter, illustrating the connection points for battery cables.

3. OPERATING INSTRUCTIONS

After successful setup, you can begin using your power inverter:

1. **Connect Devices:** Plug your AC-powered devices into the 110V AC outlets or your USB-powered devices into the USB charging ports. Ensure the total wattage of all connected devices does not exceed 1500 Watts.
2. **Monitor LCD Display:** The LCD display provides real-time information:
 - **Input Voltage:** Displays the current DC voltage from your battery.
 - **Output Voltage:** Shows the AC output voltage.
 - **Battery Capacity:** Indicates the remaining battery charge level.
 - **Load Capacity:** Displays the current power draw of connected devices.
3. **Power Off:** When finished, first disconnect all devices from the inverter, then switch the inverter's power button to 'OFF'. Finally, disconnect the inverter from the 12V DC power source.

ADVANCED LCD DISPLAY

Monitor the Operation Status Anytime

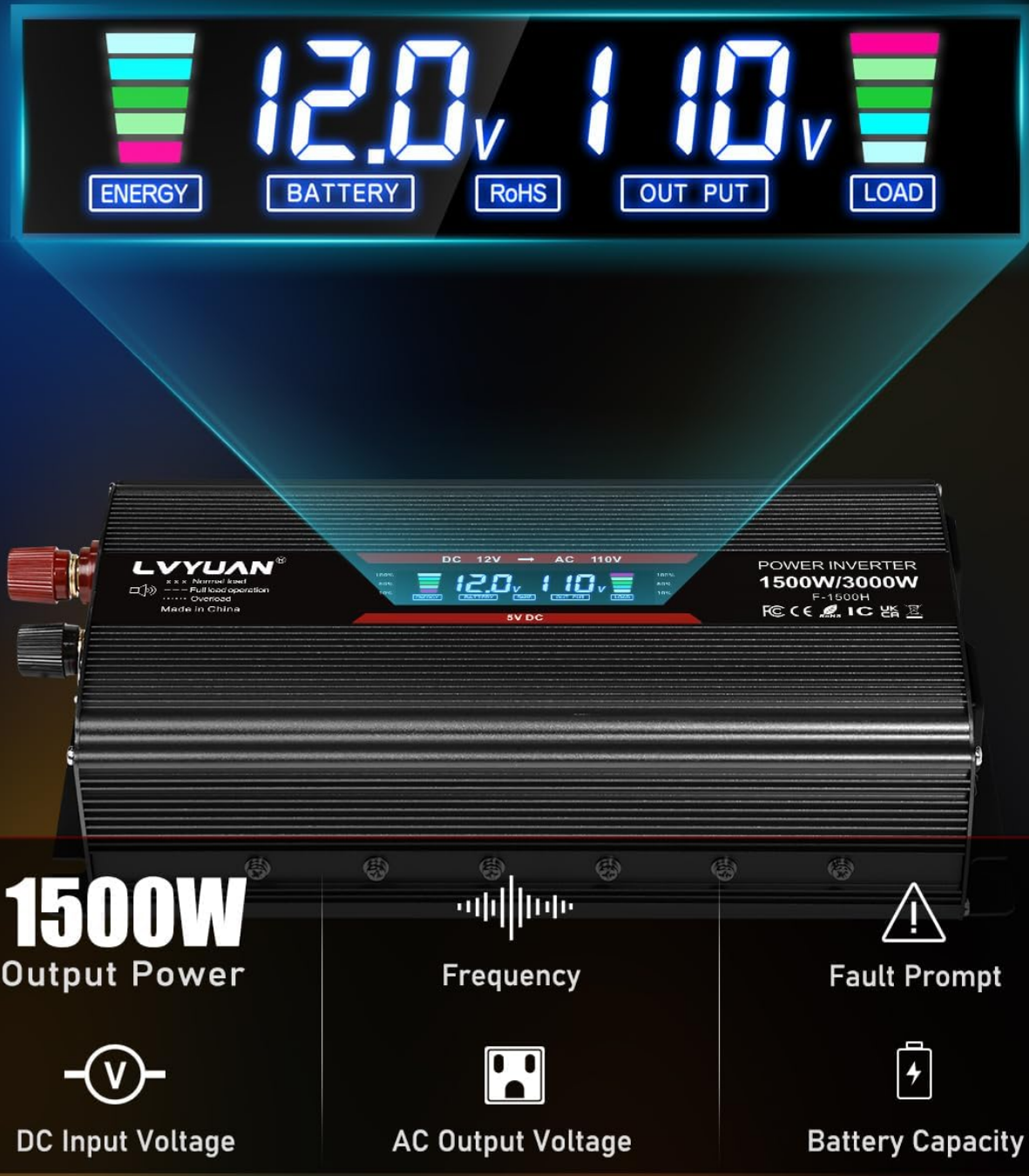


Image 3.1: The intelligent LCD display showing input voltage, output voltage, battery level, and load capacity.

Your browser does not support the video tag.

Video 3.1: This video demonstrates the operation of the 1500W Power Inverter, including its LCD display and how it powers various devices.

4. MAINTENANCE

To ensure the longevity and optimal performance of your inverter, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the exterior of the inverter with a dry, soft cloth. Ensure ventilation openings and the cooling fan are free from dust and debris. Do not use liquid cleaners.
- **Fuse Replacement:** The inverter is equipped with 4 replaceable 50A fuses for protection. If a fuse blows, replace it with an identical 50A fuse. Always disconnect the inverter from all power sources before attempting fuse replacement.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place, away from direct sunlight and extreme temperatures.



Image 4.1: The intelligent temperature control fan, which activates when the internal temperature exceeds 113°F or the load is greater than 40%, helping to maintain optimal operating temperature.

5. TROUBLESHOOTING

The intelligent LCD display provides error codes to help diagnose common issues:

Error Code	Description	Solution
E-1	Low Voltage Protection	Recharge or replace the 12V battery. Ensure connections are secure.
E-2	High Voltage Protection	Check the input voltage; it may be too high. Disconnect and re-evaluate the power source.
E-3	Over-temperature Protection	Reduce the load, ensure proper ventilation, and allow the inverter to cool down.
E-4	Overload Protection	Reduce the total wattage of connected devices. Ensure the load does not exceed 1500W continuous.
E-5	Short Circuit Protection	Check all connected devices and cables for short circuits. Disconnect and reconnect devices one by one.
E-6	Restart Required	Turn the inverter off, wait a few seconds, then turn it back on.

Display Protection Tips



E-1

Low Voltage
Protection

E-2

High Voltage
Protection

E-3

Over Temperature
Protection

E-4

Overload
Protection

E-5

Short Circuit
Protection

E-6

Restart
Required

Image 5.1: Visual representation of the display protection tips and corresponding error codes.

6. SPECIFICATIONS

Feature	Specification
Brand	LVYUAN

Feature	Specification
Model Name	LVYUAN 1500W Car Power Inverter
Model Number	1500WLED
Input Voltage	12 Volts DC
Output Voltage	110 Volts AC
Continuous Output Power	1500 Watts
Peak Output Power	3000 Watts
Electrical Output Waveform	Modified Sine Wave
Frequency	60 Hz
Number of AC Outlets	2
USB Ports	2
Display Type	LCD
Conversion Efficiency	> 85%
Item Dimensions (L x W x H)	10.63" x 4.72" x 2.76" (27cm x 12cm x 7cm)
Item Weight	3.72 Pounds



Image 6.1: Physical dimensions of the inverter, shown next to a smartphone for scale.

7. WARRANTY INFORMATION

This Lvyuan 1500W Car Power Inverter comes with a **12-Months Warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

8. CUSTOMER SUPPORT

For any questions, technical assistance, or warranty inquiries regarding your LUYUAN 1500W Car Power Inverter, please contact LUYUAN customer support. Refer to the contact information provided with your product packaging or visit the official LUYUAN website for support details.

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