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› LUYUAN 800W/2000W Power Inverter User Manual

LUYUAN Wechselrichter

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Model: Wechselrichter

1. INTRODUCTION

Thank you for choosing the LUYUAN 800W/2000W Power Inverter. This device is a modified sine wave inverter designed to convert 12V DC power from your vehicle's battery or a 12V backup battery into 230V AC power, allowing you to operate various electronic devices on the go. With 800W continuous power and 2000W peak power, it provides a reliable power source for your needs.

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your power inverter. Please read it thoroughly before use and keep it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the inverter or connected devices.

- **Ventilation:** Ensure adequate ventilation around the inverter. Do not block ventilation openings.
- **Environment:** Do not expose the inverter to water, rain, snow, or spray. Do not operate it in areas with flammable fumes or gases.
- **Connection:** Connect the inverter only to a 12V DC power source. Ensure correct polarity (+ to + and - to -). Incorrect connection can damage the inverter and the power source.
- **Load Capacity:** Do not exceed the inverter's rated continuous power (800W) or peak power (2000W). Overloading can cause damage or fire.
- **Inductive Loads:** For inductive loads such as refrigerators, motors, or pumps, it is recommended to use an inverter with a higher wattage capacity or a pure sine wave inverter, as these devices have high startup current requirements.
- **Maintenance:** Do not attempt to disassemble or modify the inverter. Refer all servicing to qualified personnel.
- **Children:** Keep the inverter out of reach of children.
- **Temperature:** The inverter may become warm during operation. Ensure it is placed in an area where heat can dissipate.

More Widely Applications



Image: The LVYUAN Power Inverter highlighting its multiple protection features including short circuit, low voltage, high pressure, reverse connection, and overtemperature protection.

3. PRODUCT OVERVIEW

The LVYUAN 800W/2000W Power Inverter is designed for convenience and reliability.

3.1 Components

- **Power Inverter Unit:** The main unit that converts DC to AC power.
- **Battery Clamp Cables:** Red (+) and Black (-) cables for direct connection to a 12V battery.
- **Cigarette Lighter Adapter Cable:** For lower power applications via a vehicle's cigarette lighter socket.

3.2 Features

- Modified Sine Wave Output (800W Continuous / 2000W Peak)
- 1x 230V AC Outlet

- 2x USB 5V Output Ports for charging mobile devices
- Built-in Cooling Fan for efficient heat dissipation
- Multiple Protection Features: Short circuit, overcharge, under/over voltage, over-temperature, built-in fuses.



Image: The LVYUAN Power Inverter unit shown with its included battery clamp cables and cigarette lighter adapter cable.



Image: Close-up view of the inverter's front panel, displaying the AC output socket, dual USB 5V output ports, and the ON/OFF switch with power and fault indicators.



Image: Close-up view of the inverter's rear panel, showing the DC input terminals (positive and negative) and the cooling fan.

4. SETUP AND INSTALLATION

Follow these steps for proper setup of your power inverter.

4.1 Connecting to a 12V Battery (Recommended for higher loads)

1. Ensure the inverter's ON/OFF switch is in the "OFF" position.
2. Connect the **red (+) battery clamp cable** to the **positive (+) terminal** of the inverter.
3. Connect the **black (-) battery clamp cable** to the **negative (-) terminal** of the inverter.
4. Connect the **red (+) battery clamp** to the **positive (+) terminal** of your 12V vehicle battery or external battery.

5. Connect the **black (-) battery clamp** to the **negative (-) terminal** of your 12V vehicle battery or external battery.
6. Ensure all connections are secure and tight. Loose connections can cause overheating.

4.2 Connecting via Cigarette Lighter Socket (For loads up to 150W)

1. Ensure the inverter's ON/OFF switch is in the "OFF" position.
2. Plug the cigarette lighter adapter cable into the inverter's DC input.
3. Insert the cigarette lighter plug firmly into your vehicle's 12V cigarette lighter socket.
4. Note: The cigarette lighter socket typically has a fuse, limiting the power output. Do not exceed 150W when using this connection method.

5. OPERATING INSTRUCTIONS

Once the inverter is properly connected to a 12V power source:

1. Turn on the inverter by flipping the ON/OFF switch to the "ON" position. The "POWER" indicator light should illuminate green.
2. Plug your AC device into the 230V AC outlet on the inverter.
3. For USB charging, connect your USB device to one of the 5V USB ports.
4. Turn on your connected device.
5. When finished, turn off your connected device, then turn off the inverter by flipping the ON/OFF switch to the "OFF" position. The "POWER" indicator light should turn off.
6. Disconnect the inverter from the 12V power source when not in use.

5.1 Applicable Devices

The LVYUAN inverter is suitable for powering a wide range of electronic devices, including but not limited to:

- Smartphones, Laptops, Tablets
- GPS devices, Camera chargers
- Small fans, LED lights
- Camping equipment, Mobile office equipment



Image: A visual representation of common electronic devices such as smartphones, laptops, tablets, MP3 players, portable audio devices, electric razors, and cameras that can be powered by the inverter.



Image: A collage illustrating various application scenarios for the inverter, such as powering devices during camping trips, in trucks, or for general use in a vehicle's interior.

6. MAINTENANCE

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

- **Cleaning:** Keep the inverter clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.
- **Ventilation:** Regularly check that the ventilation openings and cooling fan are not obstructed. A blocked fan can lead to overheating.
- **Connections:** Periodically inspect the battery cable connections 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, away from direct sunlight and moisture.

7. 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	<ul style="list-style-type: none">• Loose battery connections• Low battery voltage• Blown fuse in inverter or vehicle• Overload protection activated	<ul style="list-style-type: none">• Check and tighten all connections.• Recharge or replace the 12V battery.• Check and replace fuses if necessary (refer to a qualified technician).• Reduce the load connected to the inverter.
"FAULT" indicator light is on	<ul style="list-style-type: none">• Overload• Over-temperature• Input voltage too high/low• Short circuit	<ul style="list-style-type: none">• Disconnect devices, turn off inverter, wait, then restart.• Ensure proper ventilation.• Verify battery voltage is within 10V-15V range.• Check connected devices for short circuits.
Fan is noisy	<ul style="list-style-type: none">• Normal operation under load• Dust/debris in fan	<ul style="list-style-type: none">• This is normal when the inverter is under load or getting warm.• Clean fan area carefully (with inverter off and disconnected).

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

8. SPECIFICATIONS

Feature	Detail
Brand	LVYUAN
Model	Wechselrichter
Input Voltage	DC 12V
Output Voltage	AC 220V / 230V / 240V
Continuous Power	800W
Peak Power	2000W
Output Waveform	Modified Sine Wave
USB Output	2x 5V USB Ports
Frequency	50Hz
Product Dimensions	26 x 12 x 6 cm (approx.)
Item Weight	970 g (approx.)
Protection Features	Short circuit, Overload, Under/Over voltage, Over-temperature, Reverse connection



Image: The LVYUAN Power Inverter with its approximate dimensions (length 240mm, width 112mm, height 60mm) indicated.

9. WARRANTY AND SUPPORT

LVYUAN provides a 12-month warranty for this product.

For warranty claims, technical support, or any questions regarding your LVYUAN Power Inverter, please contact the seller directly before returning the item. This will help resolve your issue more quickly.

Contact information for support is typically available through your purchase platform or the seller's official website.

