

JIGUUN 647581563908

JIGUUN 2000W Pure Sine Wave Power Inverter User Manual

Model: 647581563908

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation of your JIGUUN 2000W Pure Sine Wave Power Inverter. This device converts 12V DC power from a battery into 110V/120V AC power, suitable for various household appliances, tools, and electronics. It is designed for use in vehicles, RVs, camping, home backup, and emergency situations.

The inverter features a continuous output of 2000W and a peak output of 4000W, offering clean and stable power comparable to grid electricity. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

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

- **Electrical Safety:** Always connect the inverter to a 12V DC power source. Ensure correct polarity (red to positive, black to negative) to prevent short circuits and damage.
- **Load Capacity:** Do not connect equipment with a rated power higher than 2000W to avoid damaging the inverter. Be aware that inductive loads (e.g., microwave ovens, refrigerators) may have a starting power 4-6 times their working power.
- **Ventilation:** Ensure adequate ventilation around the inverter. Do not block cooling fans or vents. The cooling fan activates when the internal temperature exceeds 45°C.
- **Environment:** Do not expose the inverter to direct sunlight, water, moisture, or flammable materials. Operate in a dry, well-ventilated area.
- **Battery Connection:** It is recommended to use a 12V 240AH or above battery for power supply. Incorrect voltage will damage the unit.

- **Vehicle Use:** Do not keep the inverter on when your RV, truck, or car engine is not running for extended periods, as this can drain the vehicle's battery.
- **Solar Integration:** This inverter cannot be directly connected to solar panels. It requires a solar charge controller and battery in a solar installation.
- **Grounding:** Ensure the AC ground terminal is properly connected.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x JIGUUN DC 12V to AC 110V 2000W Pure Sine Wave Inverter
- 1x User Manual
- 2 Sets of Battery Cables (2x Red, 2x Black)
- 1x Remote Control
- 10x 30A Fuses (Note: Inverter has built-in fuses, these are spares)

CE FC RoHS



Image: Package contents of the JIGUUN 2000W Pure Sine Wave Inverter.

4. PRODUCT OVERVIEW

4.1 Key Features

- **Pure Sine Wave Output:** Provides clean, stable, and interference-free AC power, suitable for sensitive electronics.
- **High Efficiency:** Conversion efficiency greater than 90%.
- **Intelligent LCD Display:** Shows real-time input voltage, output voltage, output frequency, battery level, and load power.
- **Comprehensive Protection System (BMS):** Includes under-voltage, over-voltage, overload, over-temperature, short-circuit, AC ground terminal, and reverse connection protection.
- **Cooling System:** Equipped with two high-speed, silent fans that activate automatically when the

temperature exceeds 45°C.

- **Remote Control:** Wireless remote for convenient power management.
- **Durable Construction:** Aluminum alloy shell for lasting protection.

4.2 Component Identification

PURE SINE WAVE INVERTER KEEP MORE EFFICIENT AND STABLE OUTPUT



Image: Front and Rear Panel Components.

• Front Panel:

- AC Receptacles (x4)
- USB Ports (2.1A)
- ON/OFF Switch
- Power Indicator LED
- LCD Display
- AC Ground Terminal

• Rear Panel:

- Positive DC Terminal (Red)
- Negative DC Terminal (Black)

- Cooling Fans (x2)



Image: Intelligent LCD Display Details.

The LCD display provides the following information:

- Battery Level Bar
- Loads Level Bar
- DC Input Voltage
- AC Output Voltage
- Output Frequency
- Load Power (Watts)

5. SETUP INSTRUCTIONS

5.1 Choosing a Location

Select a location for the inverter that is:

- Dry and protected from moisture.
- Well-ventilated to allow for proper cooling.
- Away from direct sunlight and heat sources.
- Securely mounted to prevent movement.

5.2 Connecting to a Battery

1. Ensure the inverter's ON/OFF switch is in the OFF position.
2. Connect the red battery cable to the positive (+) terminal of your 12V battery.
3. Connect the other end of the red cable to the positive (+) DC input terminal on the inverter.
4. Connect the black battery cable to the negative (-) terminal of your 12V battery.
5. Connect the other end of the black cable to the negative (-) DC input terminal on the inverter.
6. Ensure all connections are tight and secure. Incorrect polarity will damage the inverter.



Image: Inverter with battery cables for connection.

5.3 Solar System Integration (Conceptual Diagram)

The inverter can be part of a solar power system but cannot be directly connected to solar panels. A typical setup involves solar panels, a charge controller, and a battery, with the inverter drawing power from the battery.



Image: Conceptual diagram of a DIY Solar System with the inverter.

6. OPERATING INSTRUCTIONS

6.1 Powering On and Off

1. After connecting the inverter to the battery, switch the ON/OFF button on the inverter to the ON position.
2. The LCD display will illuminate, showing input voltage, output voltage, and other parameters.
3. To power off, switch the ON/OFF button to the OFF position.

6.2 Connecting AC Devices

1. Ensure the inverter is powered on.
2. Plug your AC devices into the AC outlets on the front panel of the inverter.
3. For USB charging, connect your device to the USB port.
4. Monitor the LCD display for real-time load power and battery status.

2000W 12V DC TO 110V/120V AC POWER INVERTER

90%
Conversion Power

<1.2A
Standby Current
Consumption



Image: Inverter powering multiple devices.

6.3 Using the Remote Control

The included remote control allows you to power the inverter ON or OFF wirelessly, providing convenience, especially when the inverter is installed in a less accessible location.



Remote Control

No wire connection done

Image: Remote control for the inverter.

6.4 Application Examples

PURE SINE WAVE INVERTER FOR WIDE APPLICATION

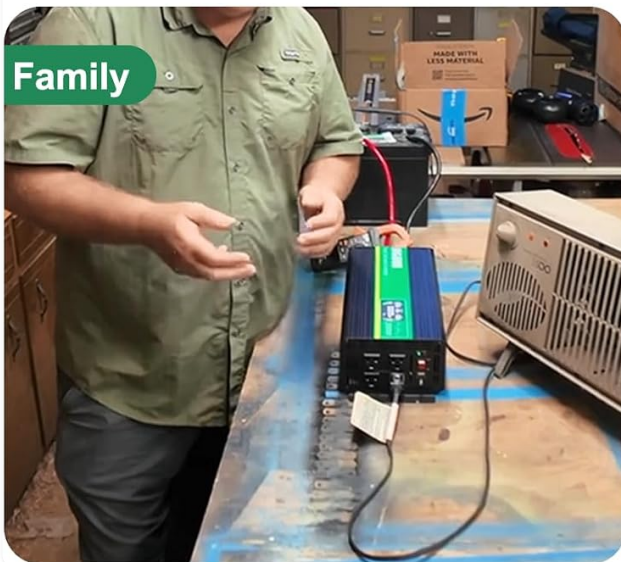


Image: Inverter applications in car, emergency, home, and work settings.

7. MAINTENANCE

- **Cleaning:** Keep the inverter clean and free of dust. Use a dry cloth to wipe the exterior. Do not use liquid cleaners.
- **Ventilation:** Regularly check that the cooling fans and vents are clear of obstructions. The fans operate automatically when the internal temperature exceeds 45°C to prevent overheating.
- **Connections:** Periodically inspect battery cable connections to ensure they remain tight and free of corrosion.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.

8. TROUBLESHOOTING

The JIGUUN inverter is equipped with a 7-point comprehensive protection system to ensure safe operation. If the inverter stops working or an error is indicated, check the following:



Image: Upgraded BMS System and Protection Features.

- **No Output Power / Inverter Not Turning On:**

- Check battery connections for tightness and correct polarity.
- Verify battery voltage is within the 12V operating range.
- Ensure the inverter's ON/OFF switch is in the ON position.
- Check if the internal fuses have blown (replace with supplied 30A fuses if necessary).

- **Low Output Voltage / Inconsistent Output:**

- Ensure the connected load does not exceed the inverter's continuous power rating (2000W).
- Check the battery charge level; a low battery can cause voltage drops.

- Verify that the battery cables are of adequate gauge and length for the current draw.
- **Overload Protection Activated:**
 - Disconnect some of the connected devices.
 - Restart the inverter.
 - Remember that some inductive loads have high starting power.
- **Over-Temperature Protection Activated:**
 - Ensure the inverter has adequate ventilation and cooling fans are operating.
 - Reduce the load on the inverter.
 - Allow the inverter to cool down before restarting.
- **Short Circuit Protection:**
 - Disconnect all AC loads.
 - Inspect AC cables and devices for any short circuits.
 - Restart the inverter.

If problems persist after troubleshooting, please contact JIGUUN customer support.

9. SPECIFICATIONS

Feature	Specification
Model Name	647581563908
Continuous Wattage	2000 Watts
Peak Wattage	4000 Watts
DC Input Voltage	12V
AC Output Voltage	110V/120V
Output Waveform	Pure Sine Wave
Conversion Efficiency	>90%
USB Output	2.1A
Product Dimensions	13.62 x 6.5 x 4.33 inches
Item Weight	11.22 pounds
Power Source	Solar and Battery Powered

10. WARRANTY AND SUPPORT

The JIGUUN 2000W Pure Sine Wave Power Inverter comes with a **1-year warranty**, including free replacement for manufacturing defects.

For any questions, technical assistance, or warranty claims, please contact the JIGUUN support team via email. Our team is dedicated to resolving any issues you may encounter.

Contact Information: Please refer to the contact details provided on the product packaging or the official JIGUUN website.