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> [MWXNE 4000W Pure Sine Wave Power Inverter DC 48V to AC 110V 120V User Manual](#)

MWXNE 4000W-48V

MWXNE 4000W Pure Sine Wave Power Inverter User Manual

Model: 4000W-48V

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your MWXNE 4000W Pure Sine Wave Power Inverter. This device converts 48V DC power from a battery source into 110V/120V AC power, suitable for various household and portable electronic devices. Please read this manual thoroughly before installation and use to ensure proper function and safety.

SAFETY INSTRUCTIONS

Adherence to these safety guidelines is crucial to prevent personal injury and damage to the inverter or connected devices.

- **Ventilation:** Ensure adequate ventilation around the inverter. Do not block cooling vents.
- **Environment:** Install the inverter in a dry, cool, and well-ventilated area, away from direct sunlight, heat sources, and flammable materials. Avoid exposure to water or excessive humidity.
- **Connections:** Always connect the inverter to a 48V DC power source. Ensure all connections are secure and correct polarity is observed (positive to positive, negative to negative). Loose connections can cause overheating and damage.
- **Grounding:** Properly ground the inverter according to local electrical codes. An earth wire is provided for this purpose.
- **Load Capacity:** Do not exceed the inverter's rated continuous power output of 4000W. Overloading can cause the inverter to shut down or be damaged.
- **Maintenance:** Do not attempt to open or service the inverter yourself. Refer all servicing to qualified personnel.
- **Children:** Keep the inverter and its accessories out of reach of children.
- **Emergency:** In case of smoke, unusual odors, or abnormal operation, immediately disconnect the inverter from the power source and connected devices.



Figure 1: Inverter Safety Protection System

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x MWXNE 4000W Pure Sine Wave Inverter
- 1x User Manual
- 2x Battery Cables (1x Red, 1x Black)
- 1x Wireless Remote Controller
- 1x Wired Remote Controller
- 5x Fuses
- 1x Spanner
- 1x Earth Wire



Figure 2: Included Accessories

PRODUCT OVERVIEW

Familiarize yourself with the components of your MWXNE 4000W Pure Sine Wave Power Inverter.

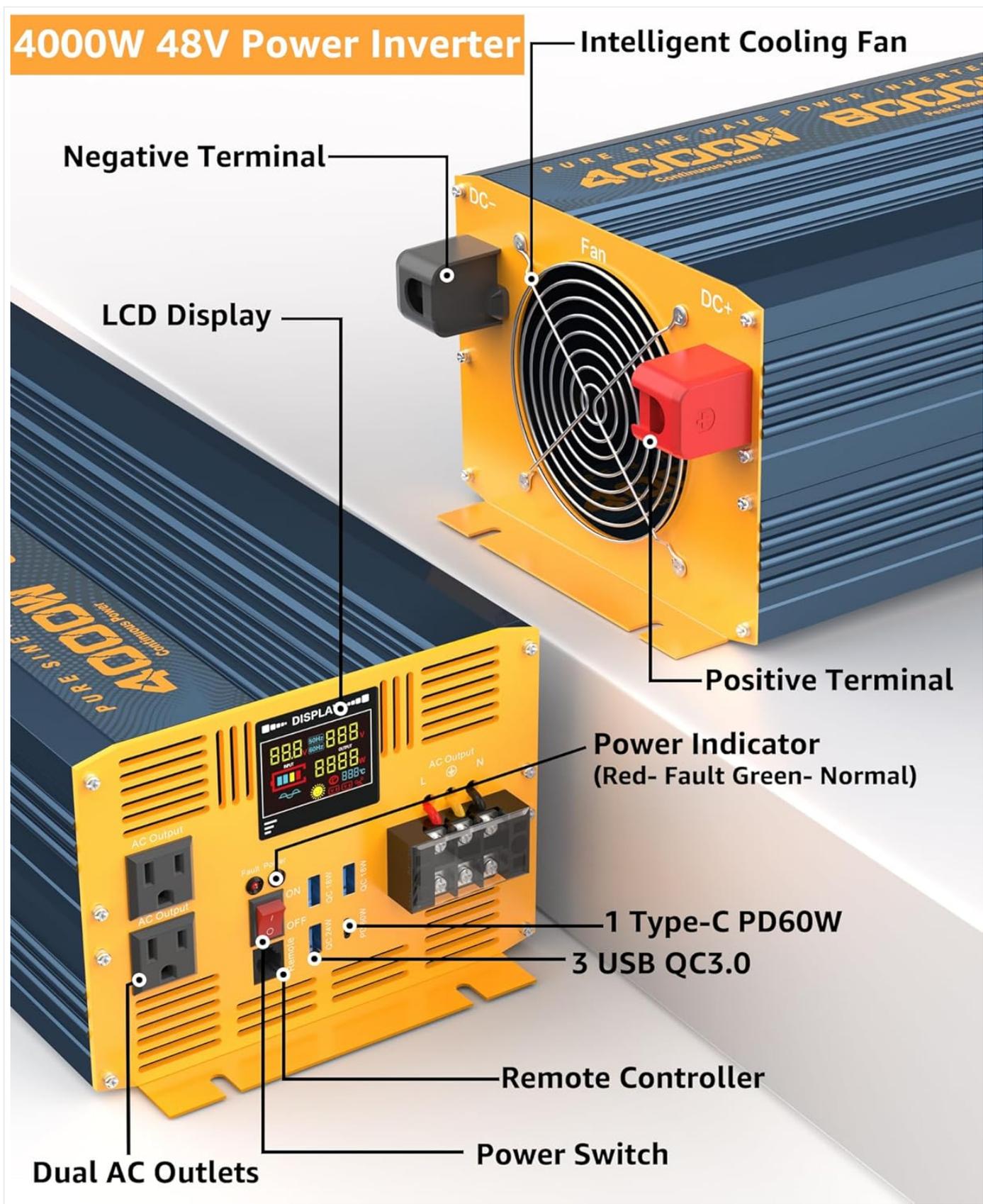


Figure 3: Inverter Component Diagram

Front Panel Features:

- **Dual AC Outlets:** Provide 110V/120V AC power for connecting standard electrical appliances.
- **USB-C (60W PD) Port:** For fast charging compatible USB-C devices.
- **3 USB-QC3.0 Ports:** For fast charging compatible USB-A devices.
- **LCD Display:** Shows input voltage, output voltage, frequency, power consumption, battery status, temperature, and protection status.

- **Power Switch:** Turns the inverter on or off.
- **Remote Controller Port:** Connects the wired remote control.
- **Power Indicator:** Red for fault, Green for normal operation.

Rear Panel Features:

- **Positive Terminal (Red):** Connects to the positive terminal of the 48V DC battery.
- **Negative Terminal (Black):** Connects to the negative terminal of the 48V DC battery.
- **Intelligent Cooling Fan:** Activates automatically to maintain optimal operating temperature.
- **Grounding Terminal:** For connecting the earth wire.

SETUP AND INSTALLATION

Follow these steps for safe and correct installation of your inverter.

1. Mounting the Inverter:

- Choose a location that is dry, cool, and well-ventilated.
- Ensure there is sufficient space around the inverter for airflow, especially around the cooling fan.
- Mount the inverter securely on a stable surface using appropriate fasteners.

2. DC Input Connection:

1. Ensure the inverter's power switch is in the **OFF** position.
2. Connect the **RED** battery cable to the **Positive (+)** terminal of the 48V DC battery.
3. Connect the other end of the **RED** battery cable to the **Positive (+)** terminal on the inverter.
4. Connect the **BLACK** battery cable to the **Negative (-)** terminal of the 48V DC battery.
5. Connect the other end of the **BLACK** battery cable to the **Negative (-)** terminal on the inverter.
6. Tighten all connections securely using the provided spanner. Loose connections can cause voltage drops and overheating.

3. Grounding Connection:

- Connect one end of the provided earth wire to the grounding terminal on the inverter.
- Connect the other end of the earth wire to a proper earth ground point (e.g., vehicle chassis, ground rod, or house ground system).

4. Remote Control Connection:

- **Wired Remote Control:** Plug the wired remote control cable into the designated port on the inverter's front panel.
- **Wireless Remote Control:** The wireless remote operates independently. Ensure it has a working battery.



Figure 4: Example Inverter Connection Diagrams

OPERATION

1. Powering On the Inverter:

1. After ensuring all connections are secure and correct, switch the inverter's main power switch to the **ON** position.
2. The LCD display will illuminate, showing current input voltage, output voltage, and other operational parameters. The power indicator should be **GREEN**.
3. If using the wired remote, ensure the main switch is ON, then use the remote's power button to activate the inverter.
4. If using the wireless remote, ensure the main switch is ON, then use the remote's ON button. Note that the wireless remote may draw standby power even when the inverter is off but the main switch is ON.

2. Connecting AC Devices:

- Plug your AC appliances into the dual AC outlets on the front panel.
- Ensure the total wattage of all connected AC devices does not exceed 4000W.

3. Using USB Charging Ports:

- Connect your USB-C compatible devices to the 60W PD USB-C port for fast charging.
- Connect your USB-A compatible devices to the 3 USB-QC3.0 ports for fast charging.

4. Understanding the LCD Display:

The intelligent LCD display provides real-time monitoring of the inverter's status:



Figure 5: LCD Display Details and Protection Indicators

 Laptop 70W	 TV 50W
 Microwave 700W	 Coffee Maker 1300W
 Hair Dryer 600W	 Air Conditioner 1500W

- **Input Voltage (V):** Displays the DC voltage from the battery.
- **AC Output Voltage (V):** Displays the AC voltage supplied to devices.
- **Frequency (Hz):** Indicates the output frequency (50Hz/60Hz).
- **Loads Power (kW):** Shows the current power consumption of connected devices.
- **Working Temperature (°C):** Displays the internal temperature of the inverter.
- **Battery Power:** Graphical representation of battery charge level.
- **Protection Status Icons:** Icons will illuminate to indicate active protection modes such as Low Voltage Protection, Over Voltage Protection, Overload Protection, Over Temperature Protection, etc.

5. Powering Off the Inverter:

1. Disconnect all AC and USB devices from the inverter.
2. Switch the inverter's main power switch to the **OFF** position.
3. If the inverter will not be used for an extended period, it is recommended to disconnect the battery cables to prevent any standby power draw.

MAINTENANCE

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents. Ensure cooling vents are free from dust and debris.
- **Connections:** Regularly check all DC and AC connections to ensure they are tight and free from corrosion.
- **Storage:** When not in use, store the inverter in a cool, dry place. If storing for a long period, ensure the battery is fully charged and disconnected.
- **Battery Care:** Maintain your 48V DC battery according to its manufacturer's instructions to ensure optimal performance and lifespan of the inverter system.

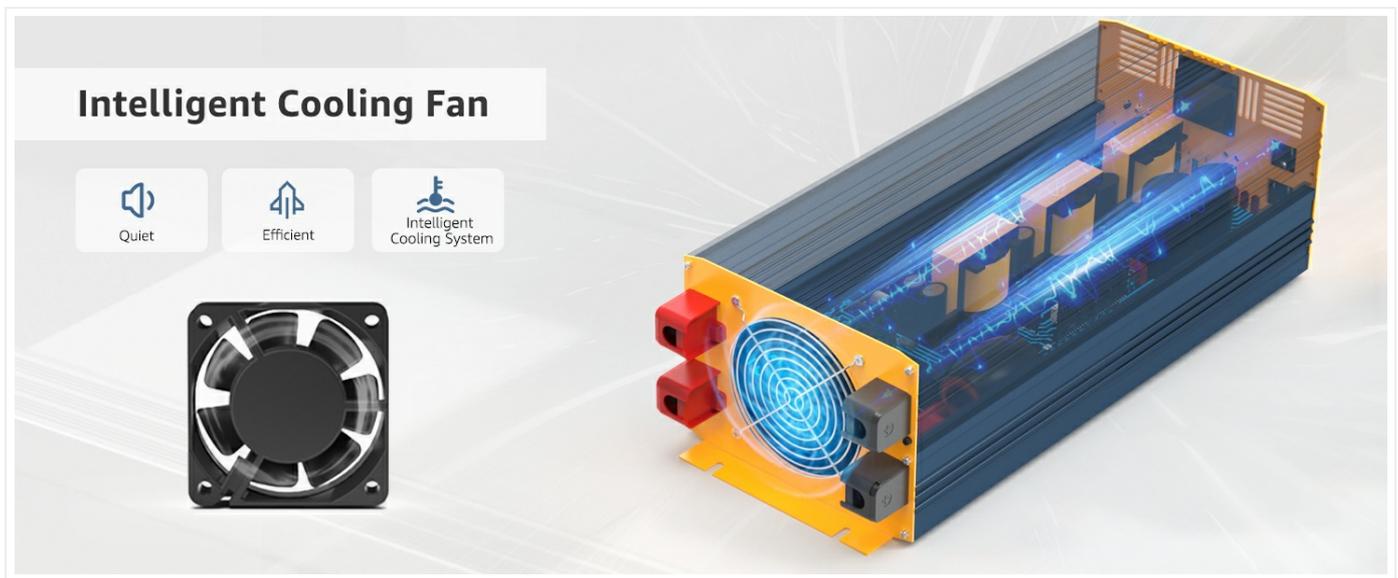


Figure 6: Intelligent Cooling Fan System

TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Inverter does not turn on.	Loose battery connections. Battery voltage too low. Main power switch off. Blown fuse.	Check and tighten all battery cable connections. Charge the battery. Ensure the main power switch is ON. Check and replace fuses if necessary (use only specified fuse types).
No AC output.	Overload protection activated. Over-temperature protection activated. Low/Over voltage protection activated. Connected appliance faulty.	Reduce the load by disconnecting some appliances. Allow the inverter to cool down. Ensure proper ventilation. Check battery voltage and charge if low, or disconnect if too high. Test the appliance with another power source.
LCD display shows error code (e.g., F10, F12).	F10: Over-voltage protection. F12: Low-voltage protection. Other codes indicate specific faults (refer to display icons in Figure 5).	For F10, check battery voltage; it may be too high. For F12, charge the battery; voltage is too low. Address the specific fault indicated by the code. Often, cycling the power (OFF then ON) can reset the inverter after resolving the underlying issue.
Buzzing noise from inverter.	Normal operation under load. Loose internal components (rare).	Some buzzing is normal, especially with inductive loads. If excessive or unusual, contact customer support.

SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model	4000W-48V
Continuous Power	4000W
Peak Power	8000W
DC Input Voltage	48V DC
AC Output Voltage	110V / 120V AC
Output Waveform	Pure Sine Wave
Conversion Efficiency	Up to 94.2%
AC Outlets	2
USB-C Port	1 (60W Power Delivery)
USB-A Ports	3 (QC3.0 Fast Charging)
Protection Features	Under-voltage, Overvoltage, Overload, Overheating, Short Circuit, Reverse Polarity
Display	Intelligent LCD Display
Remote Control	Wired & Wireless Included
Product Dimensions	20 x 7.9 x 5.9 inches
Item Weight	28.6 pounds

WARRANTY AND SUPPORT

Your MWXNE 4000W Pure Sine Wave Power Inverter comes with a **24-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product is free from defects in material and workmanship under normal use.

For warranty claims, technical assistance, or any questions regarding your inverter, please contact MWXNE customer service. Provide your product model and purchase details when contacting support for faster service.

Customer Service: Refer to the contact information provided with your purchase or visit the official MWXNE website for support details.

