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> [MWXNE 3000W Pure Sine Wave Power Inverter User Manual \(Model: 3000W-12V\)](#)

## MWXNE 3000W-12V

# MWXNE 3000W Pure Sine Wave Power Inverter User Manual

Model: 3000W-12V

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation of your MWXNE 3000W Pure Sine Wave Power Inverter. Please read all instructions carefully before use and retain this manual for future reference.

The MWXNE 3000W Pure Sine Wave Power Inverter converts 12V DC battery power to 110V/120V AC household power, suitable for various applications including vehicles, RVs, trucks, homes, and off-grid solar systems. It features multiple charging ports, an intelligent LCD display, and comprehensive safety protections.

## 2. PACKAGE CONTENTS

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Verify that all items listed below are included in your package:

- 1x MWXNE 3000W Pure Sine Wave Power Inverter
- 1x User Manual
- 2x Battery Cables (1 red for positive, 1 black for negative)
- 1x Wireless Remote Controller
- 1x Wired Remote Controller
- Some Fuses
- 1x Spanner
- 1x Earth Wire

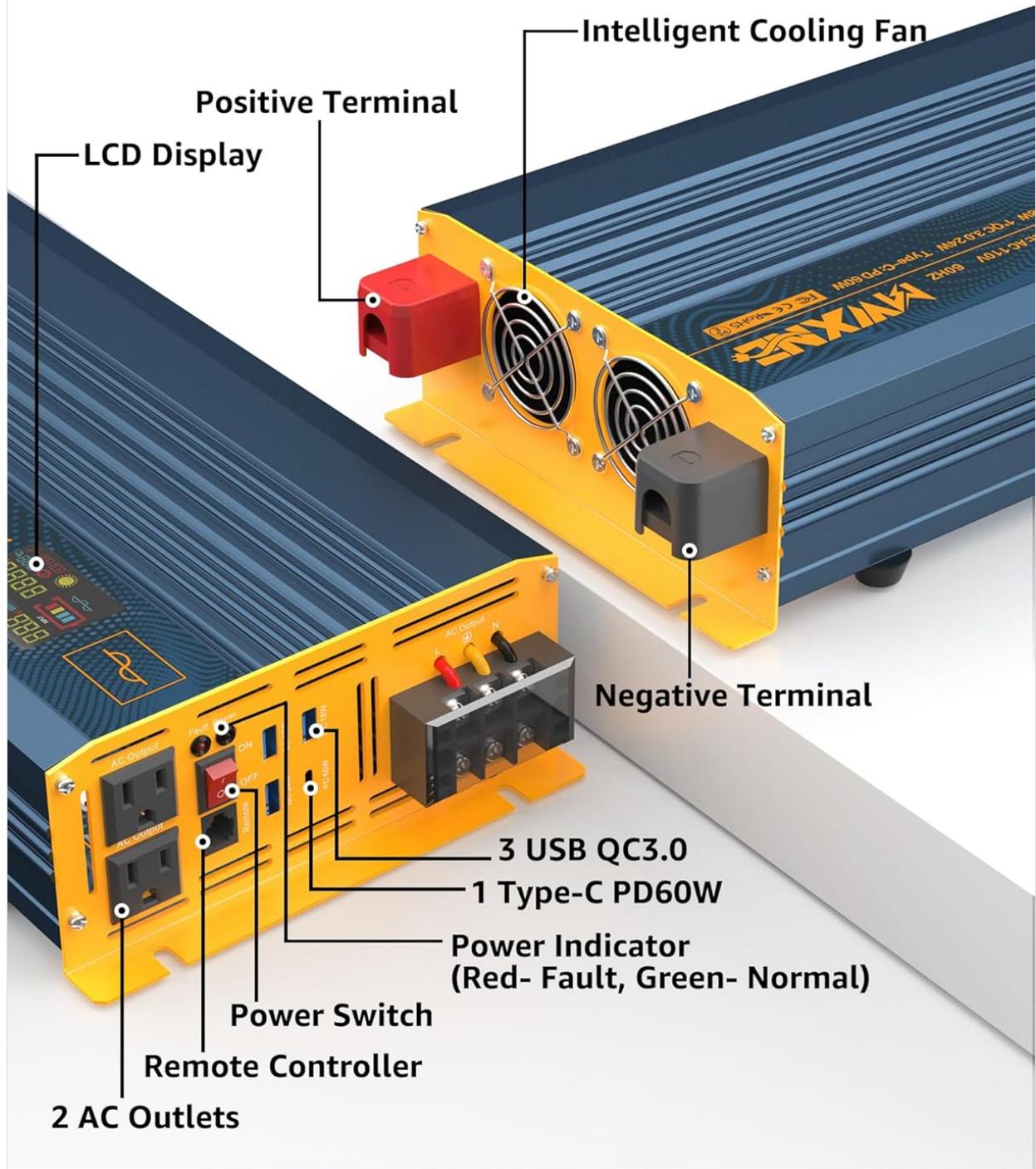


A clear layout of all items included in the package: the inverter, wired remote controller, earth wire, external remote control cable, wireless remote control, fuses, user manual, power cables, and a spanner.

### 3. PRODUCT OVERVIEW

Familiarize yourself with the various components and features of your inverter.

# 3000W 12V Power Inverter



A detailed view highlighting the inverter's front panel with 2 AC outlets, 3 USB QC3.0 ports, 1 Type-C PD60W port, power switch, remote controller port, and power indicator. The rear panel shows positive and negative terminals and intelligent cooling fans.

## 3.1 Front Panel Features

- **AC Outlets:** Two 110V/120V AC outlets for powering standard appliances.
- **USB Ports:** Two 18W USB-A ports, one 24W USB-A port, and one 60W USB-C (Type-C) PD port for fast charging multiple devices.
- **Power Switch:** Main ON/OFF switch for the inverter.
- **Remote Port:** Connection for the wired remote controller.
- **Power Indicator:** Red for fault, Green for normal operation.

## 3.2 Rear Panel Features

- **Positive Terminal:** Red terminal for connecting the positive battery cable.

- **Negative Terminal:** Black terminal for connecting the negative battery cable.
- **Intelligent Cooling Fans:** Two fans for efficient heat dissipation.

### 3.3 LCD Display



A close-up of the inverter's intelligent color LCD display, showing real-time monitoring of input voltage, output voltage, frequency, loads power, battery power, working temperature, and various protection statuses like low voltage, over voltage, overload, and over temperature.

The bright LCD display provides real-time monitoring of the inverter's status, including:

- Input Voltage (DC)
- Output Voltage (AC)
- Frequency (Hz)
- Loads Power (W)
- Battery Power Level

- Working Temperature (°C)
- Protection Status (e.g., Low Voltage, Over Voltage, Overload, Over Temperature)

## 4. SETUP AND INSTALLATION

Follow these steps for proper installation of your inverter.

### 4.1 Connecting to a Battery

1. Ensure the inverter's power switch is in the OFF position.
2. Connect the red battery cable to the positive (+) terminal of your 12V DC battery and the positive (+) terminal on the inverter.
3. Connect the black battery cable to the negative (-) terminal of your 12V DC battery and the negative (-) terminal on the inverter.
4. Tighten all connections securely using the provided spanner.



An overview of the MWXNE 3000W Pure Sine Wave Power Inverter, showcasing its front panel with AC outlets and USB ports, along with the wired remote control, wireless remote, battery cables, earth wire, fuses, and spanner.

### 4.2 Grounding the Inverter

For safety, the inverter must be properly grounded. Connect the provided earth wire to the grounding terminal on the inverter and to a suitable earth ground point.

### 4.3 Remote Control Connection

The wired remote controller can be connected to the 'Remote' port on the inverter's front panel for convenient control and monitoring from a distance.



This image illustrates the convenience of both wired and wireless remote controls. The wired remote allows for easy monitoring and control from up to 16.2 feet away, while the wireless remote offers control from a distance of up to 1km, ideal for RV travel or camping.

### 4.4 Setup Video

Official MWXNE video demonstrating the inverter's features and applications, including setup and usage scenarios.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Powering On/Off

1. After connecting the battery and grounding, press the main power switch on the inverter to the ON position.
2. The LCD display will illuminate, showing the current status.
3. To power off, press the main power switch to the OFF position.

### 5.2 Using AC Outlets

Plug your 110V/120V AC devices into the AC outlets on the inverter's front panel. Ensure the total wattage of connected devices does not exceed the inverter's continuous power rating (3000W).

### 5.3 Using USB Charging Ports

Connect your USB-compatible devices to the available USB-A (18W, 24W) or USB-C PD (60W) ports for fast charging.

# Pure Sine Wave Inverter



The inverter is shown connected to a battery, providing power to charge a smartphone via a USB-C port and a tablet via a USB-A port, demonstrating its high-speed charging capabilities.

## 5.4 Remote Control Operation

Use the wired or wireless remote control to conveniently turn the inverter ON/OFF and monitor its status from a distance.

# USEFUL FOR ANY SITUATION



A collage of images demonstrating the inverter's versatility in different situations, including powering devices during RV travel, on a boat trip, with a solar power setup, and during camping.

## 6. SAFETY PROTECTION SYSTEM

The inverter is equipped with multiple safety features to protect both the device and connected electronics:

**Note: The maximum operating wattage may not exceed 3000Watts with this unit**

A diagram illustrating the comprehensive safety protection system of the inverter, including short circuit protection, overload protection, low/over voltage protection, battery low/over voltage protection, over temperature protection, and reverse polarity protection.

- **Under-Voltage Protection:** Automatically shuts down if the input DC voltage drops too low.
- **Overvoltage Protection:** Protects against excessively high input DC voltage.
- **Overload Protection:** Prevents damage from connecting devices that draw too much power.
- **Overheating Protection:** Activates cooling fans and/or shuts down if internal temperature exceeds safe limits.
- **Short Circuit Protection:** Safeguards against short circuits in the output.
- **Reverse Polarity Protection:** Protects against incorrect battery terminal connections.

## 7. SPECIFICATIONS

Feature	Specification
Model	3000W-12V
Continuous Output Power	3000W
Input DC Voltage	12V
Output AC Voltage	110V / 120V
Output Frequency	60Hz
Output Waveform	Pure Sine Wave
Conversion Efficiency	Up to 94.2%
USB-A Ports	2x 18W QC3.0, 1x 24W QC3.0
USB-C PD Port	1x 60W
Product Dimensions	20 x 7.9 x 3.3 inches
Item Weight	17.6 pounds
Certifications	FCC, CE, ROHS, PSE

## 8. MAINTENANCE

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### 8.1 General Care

- Keep the inverter in a cool, dry, and well-ventilated area.
- Regularly check battery connections for tightness and corrosion.
- Keep the cooling fan vents clear of dust and debris.

### 8.2 Fuse Replacement

If the inverter experiences a fault related to overcurrent, the internal fuses may need replacement. Always use fuses of the correct amperage rating (40A for this model).

[Official MWXNE video tutorial on replacing the inverter's fuse.](#)

## 9. TROUBLESHOOTING

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If you encounter issues with your inverter, refer to the LCD display for error codes or protection statuses. Common issues and their potential solutions include:

- **No Output Power:** Check battery connections, ensure the inverter is ON, and verify battery voltage is within the operating range.
- **Overload Indication:** Reduce the total wattage of connected devices.
- **Low/Over Voltage Indication:** Check battery voltage and charging system.
- **Over Temperature Indication:** Ensure adequate ventilation around the inverter and clear any obstructions from the cooling fans.
- **Fault Light On:** Refer to the user manual for specific error code meanings and troubleshooting steps.

## 10. WARRANTY AND SUPPORT

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MWXNE offers a **24-month warranty** for this product. If you have any questions, require technical assistance, or need to claim warranty service, please contact MWXNE customer service.

**Customer Service:** Available 24/7 via email. Refer to your product packaging or the included user manual for specific

contact details.