

XWJNE XWJNE

XWJNE Power Inverter User Manual

Model: XWJNE 3000W Pure Sine Wave Inverter

1. INTRODUCTION AND OVERVIEW

This manual provides comprehensive instructions for the safe and efficient operation of your XWJNE 3000 Watt Pure Sine Wave Power Inverter. This device is designed to convert 12V DC power from a battery source to 110V/120V AC power, suitable for a wide range of applications including vehicles, RVs, remote workplaces, and emergency power needs.

The XWJNE inverter delivers a true 3000 watts of continuous power and a peak power of 6000 watts, ensuring stable and reliable electricity for your devices. It features a remote control, LED display, multiple protection mechanisms, and dual cooling fans for optimal performance and safety.



Image: XWJNE Pure Sine Wave Power Inverter, ideal for various applications.

2. PRODUCT FEATURES

- **Pure Sine Wave Output:** Delivers true 3000W continuous power (6000W peak) for sensitive electronics, with a conversion efficiency of up to 94.2%.

- **Remote Control & LED Display:** Equipped with a clear LCD display showing input/output voltage, battery capacity, and protection indicators. A 16.4ft remote control allows convenient power on/off and status monitoring.
- **Multi-Protection System:** Features isolated voltage protection against low/over-voltage, overheating, overload, reverse polarity, and short circuits.
- **Dual Cooling Fans:** Two intelligent cooling fans activate automatically when temperature exceeds 50°C or load is over 50%, providing efficient heat dissipation.
- **Versatile Connectivity:** Includes 2x 110V/120V AC output sockets and 1x 5V DC USB output for various devices.

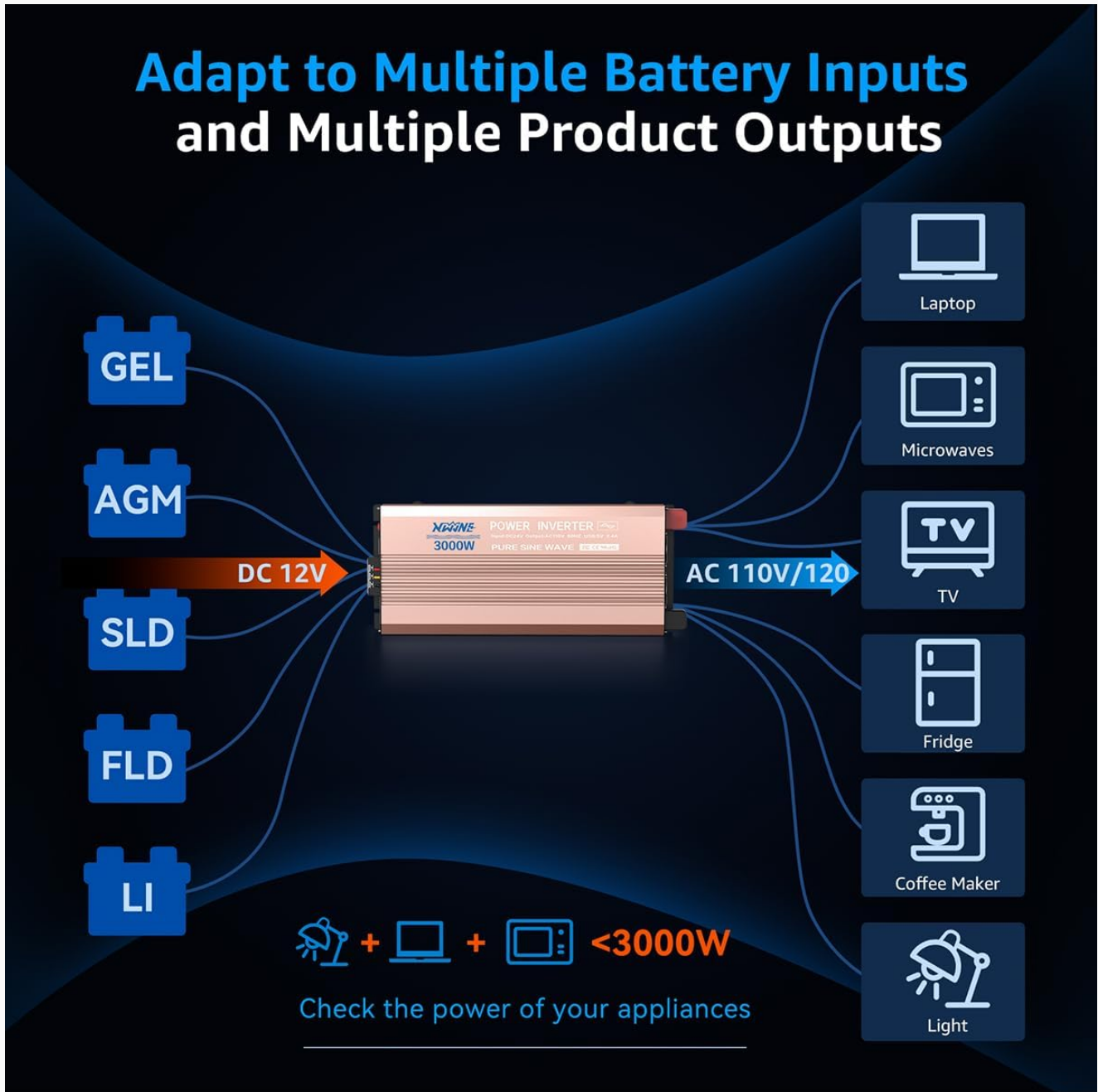
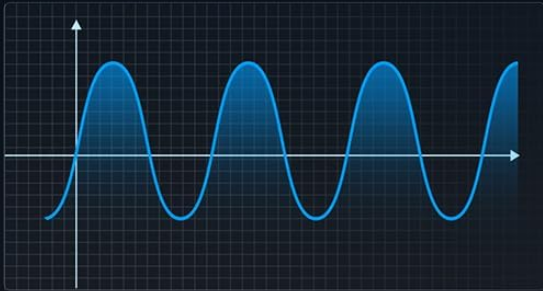


Image: The inverter supports multiple battery inputs (GEL, AGM, SLD, FLD, LI) and powers various AC devices like laptops, microwaves, TVs, fridges, and coffee makers.

DC to AC Inverter

Pure sine wave inverter, output device closest to commercial power, stable and efficient output






	XWJNE Pure Sine Wave Inverter	Other Pure Sine Wave Inverter	Modified Sine Wave Inverter
TYPE			
THD (Inverter Efficiency)	less than 4%	5-8%	20-40%
Remote Control	✓	×	×
Inverter Efficiency	90%	80-84%	80-84%
Noise	<60dB (fan on); <20dB (fan off)	<65dB	<65dB

Image: Comparison highlighting the XWJNE Pure Sine Wave Inverter's low THD (less than 4%), remote control feature, 90% efficiency, and low noise levels.

3. WHAT'S IN THE BOX

Upon unboxing your XWJNE Power Inverter, you should find the following components:

- 1 x XWJNE 3000W Power Inverter
- 2 x Car Battery Cables (Red for positive, Black for negative)
- 1 x Remote Controller (with 16.4ft cable)
- 1 x Wrench
- 1 x 3-in-1 Phone Charger Cable
- Spare Fuses
- Ground Wire
- User Manual (this document)

Box Including

SIZE: 18.9 x 7.87 x 3.35in

WEIGHT: 17.42bls



Image: Visual representation of all items included in the product package.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your inverter. Please follow these steps carefully:

- 1. Choose a Location:** Select a dry, well-ventilated area for the inverter. Ensure it is away from direct sunlight, heat sources, and flammable materials. The inverter should be mounted securely.
- 2. Battery Connection:**
 - Connect the red positive (+) battery cable to the positive (+) terminal on the inverter.
 - Connect the black negative (-) battery cable to the negative (-) terminal on the inverter.
 - Connect the other end of the red positive (+) cable to the positive (+) terminal of your 12V battery.
 - Connect the other end of the black negative (-) cable to the negative (-) terminal of your 12V battery.
 - Ensure all connections are tight and secure to prevent arcing and overheating.
- 3. Grounding:** Connect the provided green/yellow ground wire to the grounding screw on the inverter and to a suitable ground point (e.g., vehicle chassis or earth ground). This is essential for safety.

4. **Remote Control Connection:** Plug the remote control cable into the "Remote" port on the inverter. The remote display can be mounted in a convenient location for easy access.

Product Function Indication

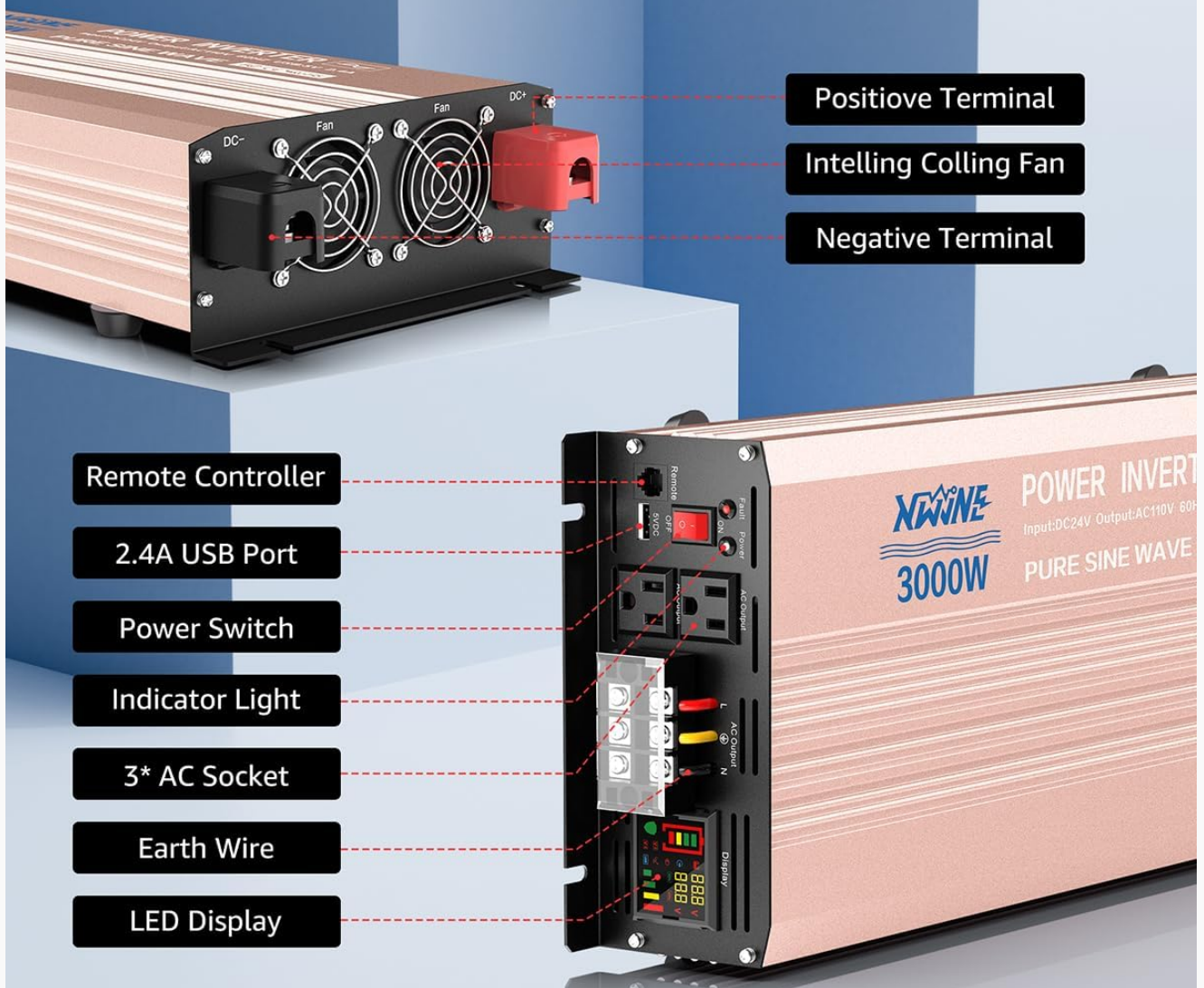


Image: Detailed view of the inverter's front panel (AC outlets, USB, display, power switch, remote port, earth wire) and rear panel (positive/negative terminals, cooling fans).



Image: How the power inverter works within a system, converting power from a battery (charged by solar panel and charge controller) to power various loads.

Installation Video:

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Video: This video provides a visual guide to the product's features and demonstrates the installation process, including connecting the battery cables and remote control.

5. OPERATING INSTRUCTIONS

1. **Powering On:** After ensuring all connections are secure, switch the main power button on the inverter to the "ON" position. The LED display will illuminate, showing battery voltage and output status.
2. **Using the Remote Control:** The remote control allows you to turn the inverter on/off and monitor its status from a distance. Press the "ON/OFF" button on the remote to control the inverter.
3. **Connecting Devices:** Plug your AC devices into the 110V/120V AC outlets and USB devices into the 5V DC USB port. Ensure the total wattage of connected devices does not exceed the inverter's continuous power rating (3000W).
4. **Monitoring Performance:** The LED display provides real-time information on input voltage, output voltage, battery capacity, and any protection indications (e.g., fault).
5. **Powering Off:** Before disconnecting any devices or the inverter from the battery, switch the inverter off using either the main power button or the remote control.

Remote Operation Switch

Very suitable for use in cramped and narrow spaces.



The body of the remote controller is designed to be embedded and there are gaps in four corners that can be fixed with screws.

Image: The remote control unit allows for convenient operation of the inverter, especially in cramped spaces.

Product Use Demonstration:

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Video: This video provides a detailed product introduction and demonstrates various use cases and operational aspects of the inverter.

6. SAFETY FEATURES AND PROTECTIONS

Your XWJNE Power Inverter is equipped with multiple safety features to protect both the device and your connected electronics:

- **Low/Over-Voltage Protection:** Automatically shuts down if input voltage is too low or too high.
- **Overheating Protection:** Dual cooling fans activate when internal temperature exceeds 50°C, and the unit shuts down if temperatures become critical.
- **Overload Protection:** Prevents damage from excessive power draw by shutting down when load exceeds capacity.

- **Reverse Polarity Protection:** Protects against incorrect battery connections.
- **Short Circuit Protection:** Safeguards against short circuits in the output.
- **Isolated Voltage Protection:** Ensures perfect protection for your devices by isolating input and output.

7 kinds of safety protection functions

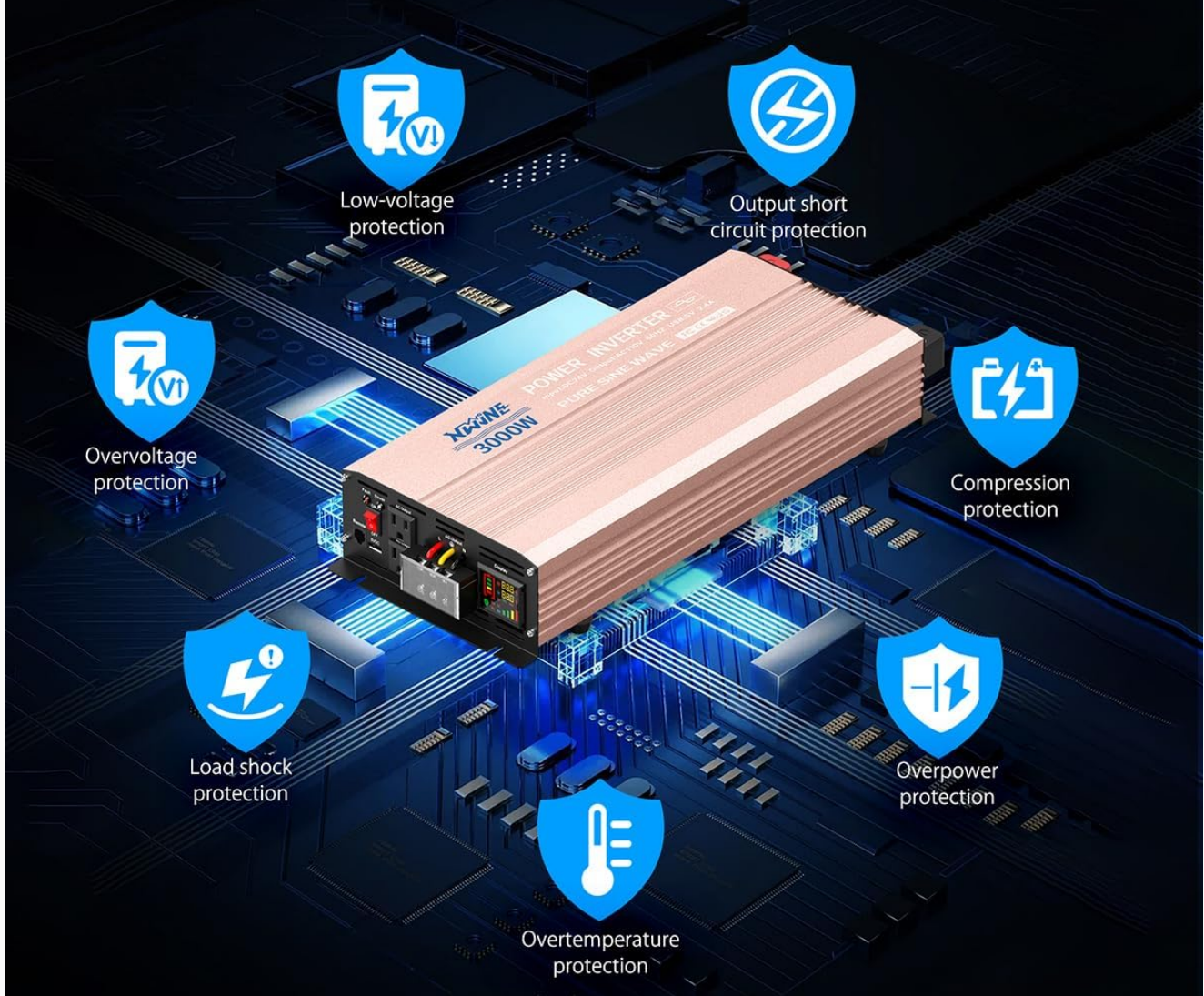


Image: Visual overview of the inverter's comprehensive safety features, including low-voltage, overvoltage, output short circuit, compression, load shock, overpower, and overtemperature protection.

2 high-efficiency cooling fans



<60dB (fan on)
<20dB (fan off)

The cooling fan will automatically start when the load reaches half + when the temperature reaches 50 degrees Celsius, and run at low decibel.

Image: The dual cooling fans ensure efficient heat dissipation, activating automatically when needed to prevent overheating.

7. MAINTENANCE

To ensure the longevity and optimal performance of your XWJNE Power Inverter, regular maintenance is recommended:

- **Keep Clean:** Regularly clean the exterior of the inverter with a dry cloth. Ensure ventilation openings and cooling fans are free from dust and debris.
- **Check Connections:** Periodically inspect all cable connections (battery, ground, and output) to ensure they are tight and free from corrosion. Loose connections can lead to overheating and reduced performance.
- **Battery Health:** Monitor your 12V battery's health and charge level. A healthy battery is essential for the inverter's efficient operation.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.

8. TROUBLESHOOTING

If you encounter issues with your XWJNE Power Inverter, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Inverter not turning on	Loose battery connections, low battery voltage, faulty power switch.	Check and tighten battery cables. Charge or replace battery. Ensure power switch is fully engaged.
No AC output	Overload, short circuit, overheating, low battery voltage.	Reduce load. Check for shorted devices. Allow inverter to cool. Charge battery. Check fault indicator on display.
Fault indicator is on	Overload, over-temperature, low/over-voltage, reverse polarity.	Refer to the LED display for specific fault codes/indicators and address the underlying issue. Disconnect and reconnect after resolving.
Fans not running	Normal operation (fans activate under load/temperature), fan malfunction.	Fans are temperature-controlled; they will only run when needed. If inverter is hot and fans are off, contact support.

If troubleshooting steps do not resolve the issue, please contact XWJNE customer support for assistance.

9. SPECIFICATIONS

- **Model Name:** XWJNE
- **Continuous Power:** 3000 Watts
- **Peak Power:** 6000 Watts
- **Input Voltage:** 12V DC
- **Output Voltage:** 110V/120V AC
- **Output Frequency:** 60Hz
- **USB Output:** 5V DC, 2.4A (2 ports)
- **Conversion Efficiency:** Up to 94.2%
- **Item Weight:** 17.42 pounds
- **Package Dimensions:** 22.76 x 10.24 x 5.75 inches
- **Manufacturer:** XWJNE

10. WARRANTY AND SUPPORT

Specific warranty details for the XWJNE Power Inverter are not provided in this manual. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your product packaging or visit the official XWJNE website.

For additional resources, you may refer to the [User Manual \(PDF\)](#).