

VOLFVERT 24V-3000Watt-Pro

VOLFVERT 24V 3000W Pure Sine Wave Power Inverter User Manual

Model: 24V-3000Watt-Pro

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your VOLFVERT 24V 3000W Pure Sine Wave Power Inverter. Please read all instructions carefully before installation and use. This inverter converts 24V DC battery power to 110V/120V AC household power, suitable for various electronic devices and appliances.

2. PRODUCT OVERVIEW

The VOLFVERT 24V 3000W Pure Sine Wave Power Inverter is designed for reliable power conversion. Key features include:

- **Advanced Pure Sine Wave Technology:** Provides 3000W continuous power and 6000W peak power, ensuring compatibility with sensitive electronics.
- **Multiple Output Ports:** Features 3 AC outlets, 2x 2.4A USB ports, and 1 Type-C port for versatile connectivity.
- **Wireless Remote Control:** Allows convenient operation from a distance.
- **LCD Display:** Provides clear indication of input voltage, output voltage, battery status, and load wattage.
- **Smart Cooling Fans:** Temperature-controlled fans ensure efficient heat dissipation and quiet operation.
- **Comprehensive Protection:** Safeguards against over-heating, short circuit, under-voltage, over-voltage, over-load, and reverse connection.

Component Identification

Familiarize yourself with the inverter's components:



Smooth
Continuous



Superior
Cooling



Ultral
Silent

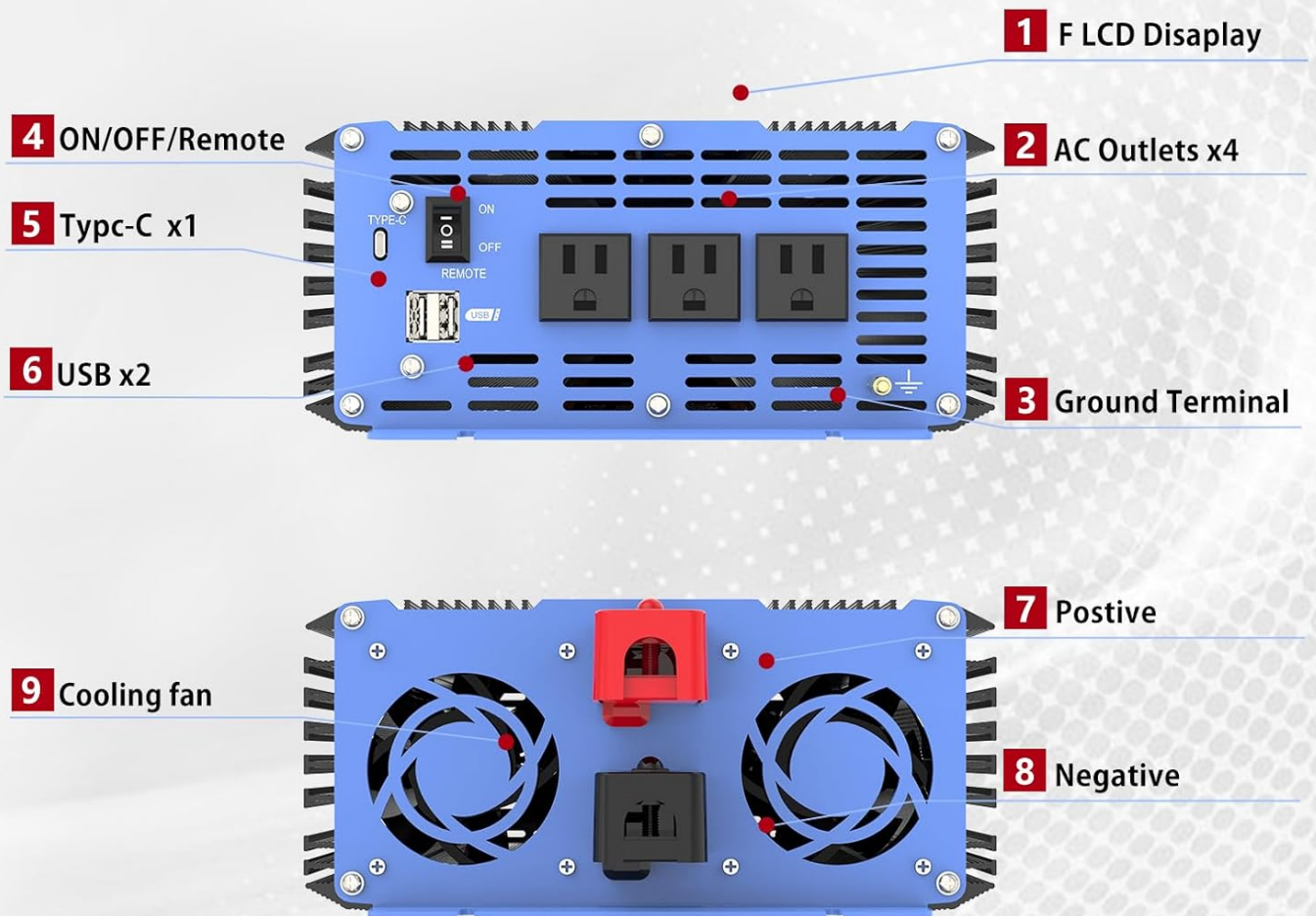


Image: Front and rear view of the VOLFVERT 24V 3000W Pure Sine Wave Power Inverter, highlighting the LCD display, AC outlets, USB and Type-C ports, ground terminal, and positive/negative battery terminals.

1. **LCD Display:** Shows operational status and warnings.
2. **AC Outlets (x3):** Standard 110V/120V AC power outputs.
3. **Ground Terminal:** For safety grounding connection.
4. **ON/OFF/Remote Switch:** Main power switch and remote control port.
5. **Type-C Port (x1):** USB Type-C charging port.
6. **USB Ports (x2):** Standard USB-A charging ports.
7. **Positive Terminal:** Red terminal for positive battery connection.
8. **Negative Terminal:** Black terminal for negative battery connection.
9. **Cooling Fans:** Automatically activate to dissipate heat.

3. SAFETY INSTRUCTIONS

Observe the following safety precautions to prevent injury or damage:

- Ensure the inverter is connected to a 24V DC power source only. Connecting to a 12V or 48V source will cause damage.
- Always connect the inverter to the battery before connecting any AC loads.
- Ensure proper ventilation around the inverter to prevent overheating. Do not block cooling fan vents.
- Do not expose the inverter to water, rain, snow, or spray.
- Avoid operating the inverter in environments with flammable fumes or gases.
- Always connect the inverter's ground terminal to a proper earth ground.
- Disconnect the battery before performing any maintenance or cleaning.
- Do not open the inverter casing. There are no user-serviceable parts inside.

4. SETUP

Follow these steps for initial setup:

4.1. Mounting the Inverter

Mount the inverter in a dry, well-ventilated area, away from direct sunlight and heat sources. Ensure sufficient space around the unit for airflow.

4.2. Battery Connection

Use the provided battery cables (1x Red, 1x Black) for connection.

1. Ensure the inverter's power switch is in the 'OFF' position.
2. Connect the **red** battery cable to the inverter's **positive (+)** terminal and then to the battery's positive (+) terminal.
3. Connect the **black** battery cable to the inverter's **negative (-)** terminal and then to the battery's negative (-) terminal.
4. Ensure all connections are tight and secure. Loose connections can cause overheating and damage.

4.3. Grounding

Connect the inverter's ground terminal to a reliable earth ground using the provided earth wire. This is crucial for safety.

4.4. Remote Control Setup

The wireless remote control allows convenient power management. Simply ensure the remote is within range and the inverter's 'REMOTE' switch is engaged.



Image: The wireless remote control unit, featuring ON and OFF buttons and a red indicator light.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

1. To power on the inverter, switch the ON/OFF switch to the 'ON' position. The LCD display will illuminate.
2. To power off, switch the ON/OFF switch to the 'OFF' position.
3. Alternatively, use the wireless remote control to switch the inverter on or off.

5.2. Connecting AC Loads

Plug your 110V/120V AC appliances into the three AC outlets on the inverter. Ensure the total wattage of connected appliances does not exceed 3000W continuous power.

5.3. Using USB and Type-C Ports

The inverter features two 2.4A USB-A ports and one Type-C port. These ports can be used for charging compatible

devices even when the main inverter power is off.

5.4. Understanding the LCD Display

The LCD display provides real-time information:



Image: Close-up of the inverter's LCD display, showing input voltage (VDC), output voltage (VAC), frequency (Hz), battery charge level, and current load wattage (W).

- **Input Voltage (VDC):** Displays the current DC voltage from your battery bank.
- **Output Voltage (VAC):** Shows the AC output voltage (110V/120V).
- **Frequency (Hz):** Indicates the output frequency (60Hz).
- **Battery Output:** A graphical representation of the battery charge level.
- **Load Wattage (W):** Displays the total power consumption of connected AC devices.
- **Warning Indicator:** Icons will appear for various protection states (e.g., Under-Voltage, Over-Voltage, Over-Load, Short-Circuit).

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your inverter:

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Ensure cooling vents are free from dust and debris.
- **Connection Check:** Regularly inspect battery and ground connections for tightness. Loose connections can lead to power loss or overheating.
- **Fan Operation:** Ensure cooling fans are operating correctly. If fans are excessively noisy or not spinning when expected under load, contact support.

7. TROUBLESHOOTING

The inverter is equipped with smart protection features that may trigger warnings or shut down the unit. Refer to the LCD display for specific warning indicators.

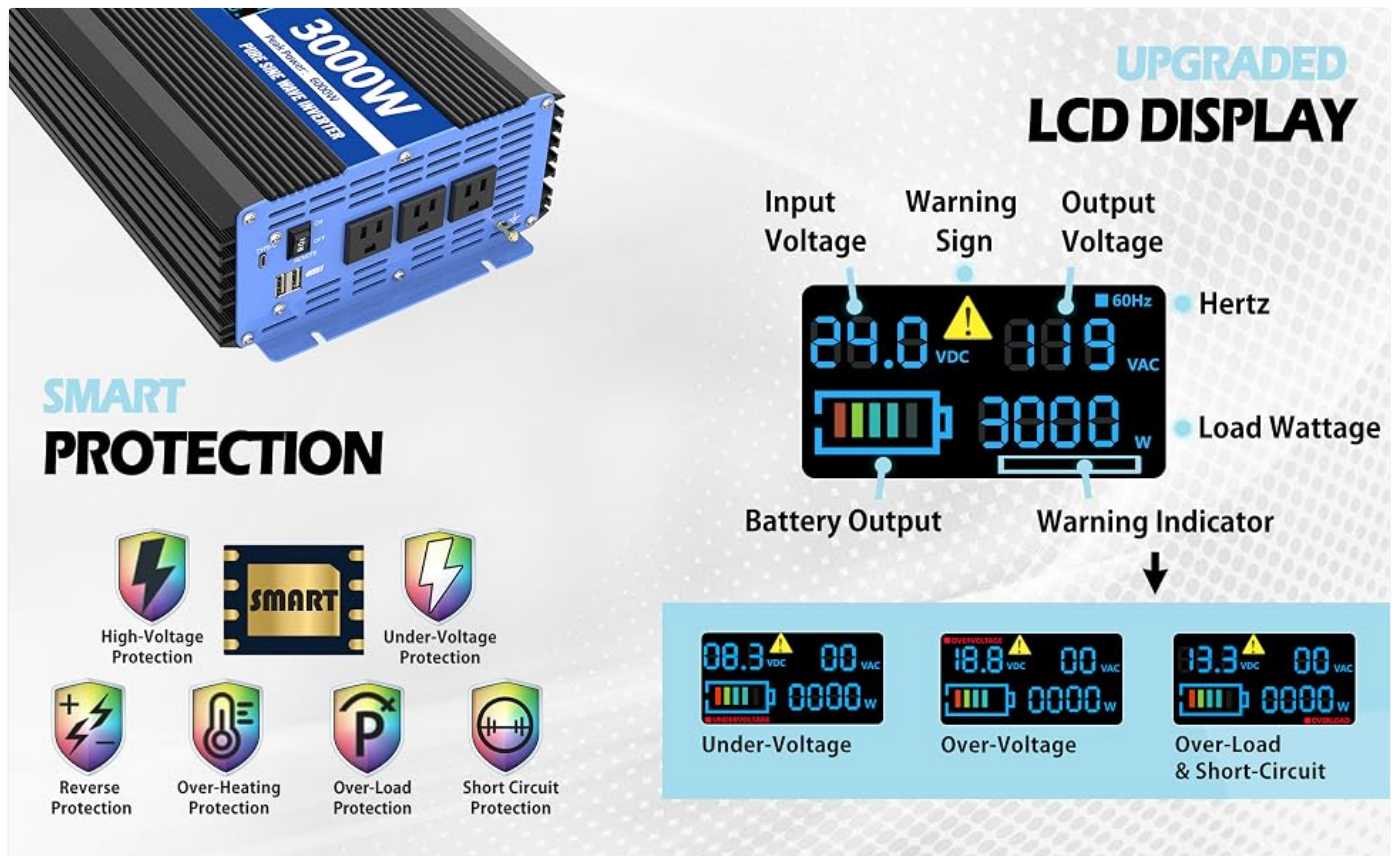


Image: The LCD display illustrating different warning indicators for under-voltage, over-voltage, and over-load/short-circuit conditions.

Problem	Possible Cause	Solution
No output power / Inverter not turning on	Loose battery connections, low battery voltage, inverter switch off, blown fuse.	Check battery connections, charge battery, ensure inverter switch is ON, check and replace fuses if necessary.
Inverter shuts down with warning indicator	Over-load, over-heating, under-voltage, over-voltage, short circuit, reverse connection.	Reduce load, ensure proper ventilation, check battery voltage, verify correct battery polarity, inspect AC wiring for shorts. The inverter features automatic restart after fault conditions are resolved.

Problem	Possible Cause	Solution
AC appliance not working	Appliance power draw exceeds inverter capacity, appliance fault.	Check appliance wattage, try a different appliance, ensure appliance is functioning correctly.

8. SPECIFICATIONS

Feature	Detail
Model Name	3000W Pure Sine Wave
Input Voltage	24V DC
Output Voltage	110V / 120V AC
Continuous Power	3000 Watts
Peak Power	6000 Watts
Output Waveform	Pure Sine Wave
USB Ports	2x 2.4A USB-A
Type-C Port	1x Type-C
AC Outlets	3
Cooling	Intelligent Temperature Control, Built-in Ultra-Silent Thermo Activated Cooling Fan
Protection	Over-Heating, Short Circuit, Under-Voltage, Over-Voltage, Over-Load, Reverse Connect
Dimensions	17.87 x 10.43 x 6.57 inches
Item Weight	12.72 pounds

9. WARRANTY AND SUPPORT

VOLFVERT offers a **24-month warranty** for this product. The package includes the 3000W Pure Sine Wave Inverter, user manual, 2 battery cables (red and black), 1 wireless remote controller, 6 fuses, 1 wrench, and 1 earth wire. For customer service or technical support, please contact VOLFVERT directly via email. Our support team is available 24/7 to assist you with any questions or concerns.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question