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› MFUZOP PSW-E24V3500W Power Inverter 24V to 220V Pure Sine Wave 3500W/7000W Instruction Manual

MFUZOP PSW-E24V3500W

MFUZOP PSW-E24V3500W Power Inverter Instruction Manual

Model: PSW-E24V3500W | Brand: MFUZOP

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your MFUZOP PSW-E24V3500W Pure Sine Wave Power Inverter. This device converts 24V DC power from a battery into 220-240V AC power, suitable for a wide range of electronic devices and appliances. Please read these instructions thoroughly before installation and use.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the inverter and connected devices:

- **Ventilation:** Ensure the inverter is installed in a well-ventilated area to prevent overheating. Do not block the cooling vents.
- **Dry Environment:** Keep the inverter away from water, rain, and moisture.
- **Proper Connections:** Always connect the inverter to a 24V DC power source. Ensure correct polarity (+ to + and - to -) to avoid damage.
- **Grounding:** The inverter should be properly grounded.
- **Load Capacity:** Do not exceed the inverter's continuous power rating of 3500W. Overloading can cause damage or fire.
- **Flammable Materials:** Do not operate the inverter near flammable liquids or gases.
- **Children:** Keep the inverter out of reach of children.
- **Maintenance:** Do not attempt to open or service the inverter yourself. Refer all servicing to qualified personnel.

3. PRODUCT FEATURES

- **High Power Output:** Provides a continuous power output of 3500W and a peak power of up to 7000W.
- **Pure Sine Wave Technology:** Delivers stable and continuous AC power, comparable to grid electricity, safe for sensitive electronics.
- **High Conversion Efficiency:** Achieves a conversion efficiency exceeding 95%.
- **Versatile Outputs:** Equipped with two European AC outlets, one Type-C port, and one 2.1A USB port.
- **Intelligent LCD Display:** Allows for immediate reading and monitoring of operational status, including input/output voltage, real-time power, battery level, and output frequency.
- **Comprehensive Protection:** Incorporates soft-start technology and multiple protection features: overload, overheating, overvoltage, undervoltage, short circuit, low voltage alarm, high voltage alarm, and reverse polarity protection.
- **Broad Application:** Suitable for solar systems, camping, business trips, RVs, outdoor work, power outages, and other

emergency situations.

4. PRODUCT DIAGRAM AND PANEL DESCRIPTION

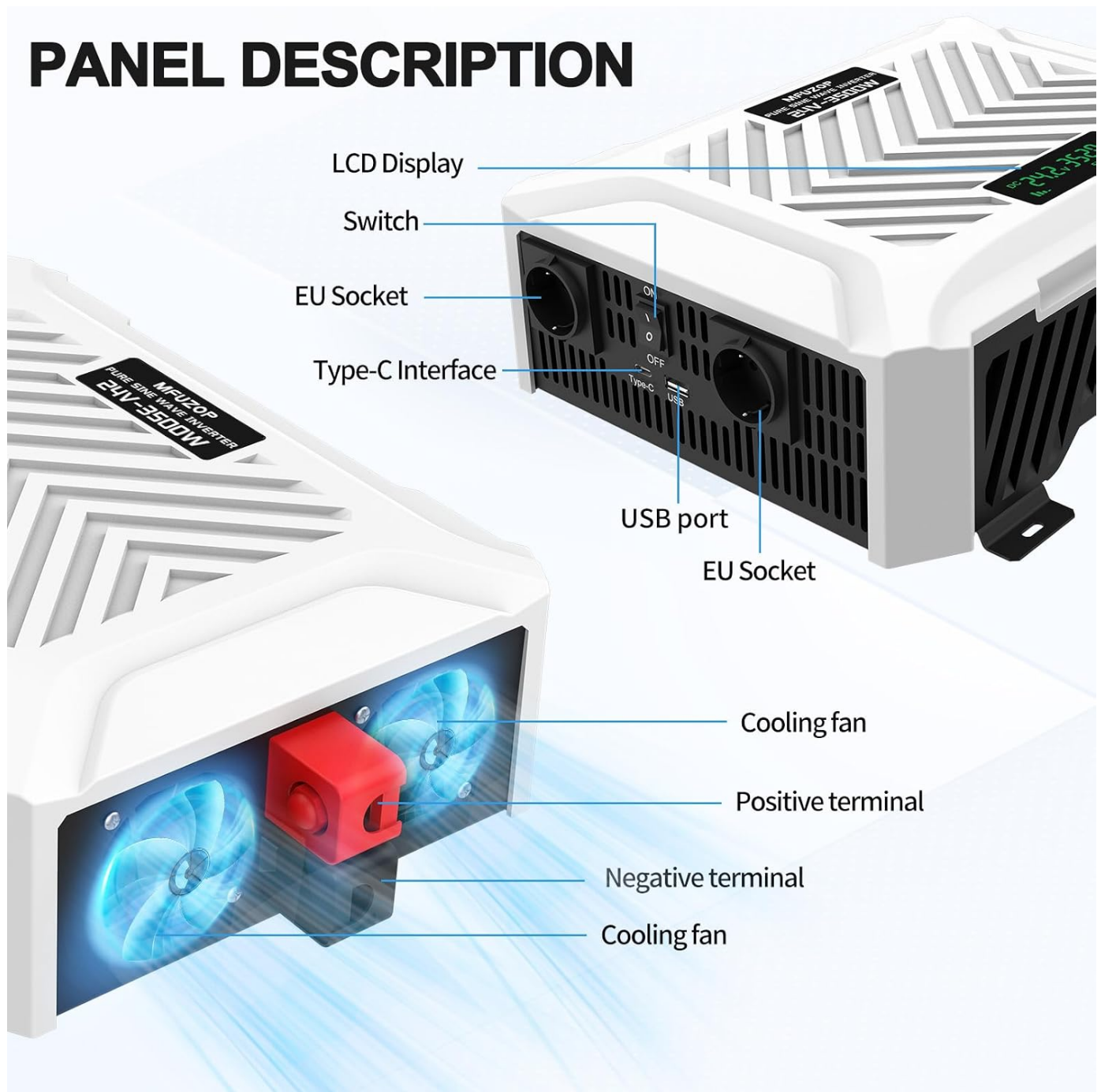


Figure 4.1: Front and Side Panel Description. This image illustrates the layout of the inverter's front panel, including the LCD display, power switch, AC outlets, USB and Type-C ports. It also shows the cooling fans and battery terminals on the side.



Figure 4.2: LCD Display Details. This image highlights the information displayed on the LCD screen, such as input voltage, output voltage, real-time power consumption, battery charge level, and output frequency.

5. SETUP

Follow these steps for proper installation:

1. **Location:** Choose a dry, cool, and well-ventilated location for the inverter. Avoid direct sunlight, heat sources, and moisture.
2. **Power Off:** Ensure the inverter's power switch is in the 'OFF' position before making any connections.
3. **Battery Connection:** Connect the red positive (+) cable from the inverter's positive terminal to the positive (+) terminal of your 24V DC battery.
4. **Negative Connection:** Connect the black negative (-) cable from the inverter's negative terminal to the negative (-) terminal of your 24V DC battery.
5. **Secure Connections:** Double-check that all connections are tight and secure to prevent loose contacts, which can cause overheating or power loss.
6. **Polarity Check:** Verify that polarity is correct. Reversing polarity will damage the inverter.
7. **Grounding:** Connect the inverter's grounding terminal to a proper earth ground.

24V 3500W Pure Sine Wave Inverter

Provide clean power and low interference to your devices

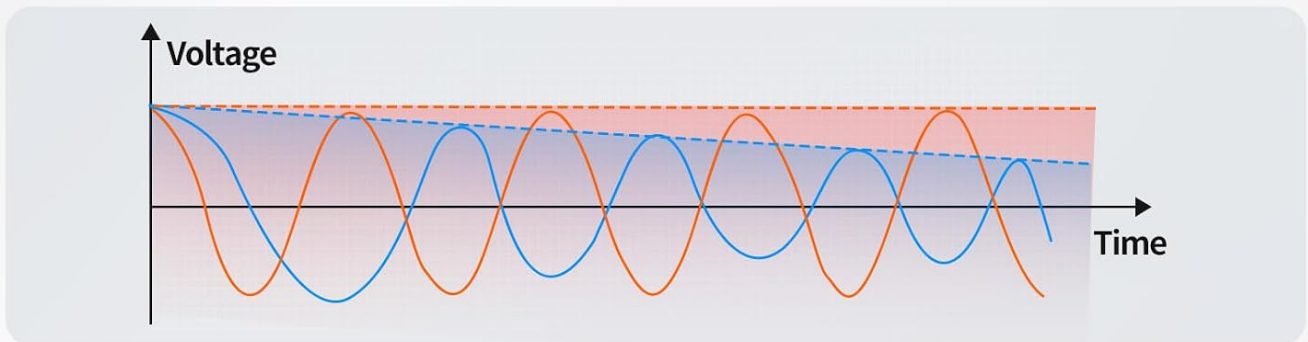
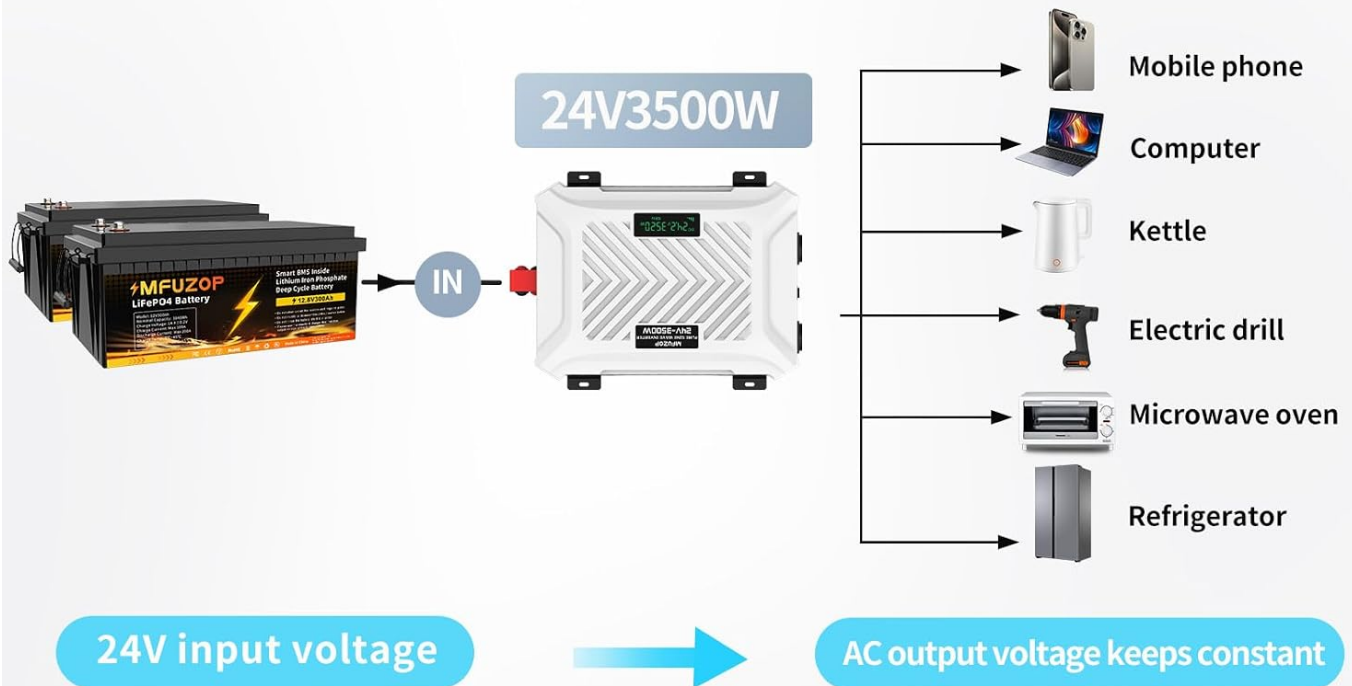


Figure 5.1: Inverter Connection Diagram. This diagram shows how the inverter connects to a 24V input source (battery) and provides AC output to various household and electronic devices.

6. OPERATING INSTRUCTIONS

Once the inverter is properly set up:

1. **Power On:** Flip the power switch on the inverter to the 'ON' position. The LCD display will illuminate, showing the current operational status.
2. **Connect Devices:** Plug your AC devices into the European AC outlets. For USB-powered devices, use the USB or Type-C ports.
3. **Monitor Load:** Observe the real-time power display on the LCD screen to ensure the total power consumption of connected devices does not exceed the inverter's continuous rating of 3500W.
4. **Power Off:** When you are finished using the inverter, first turn off all connected devices, then switch the inverter to the 'OFF' position.

PURE SINE WAVE INVERTER

Provide clean power and low interference to your devices

Pure Sine Wave
Conversion Efficiency
>90%



Figure 6.1: Inverter in Use. This image demonstrates the inverter powering a laptop and a mobile phone in an outdoor environment, showcasing its portability and application versatility.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your inverter:

- **Cleaning:** Keep the inverter's exterior clean and free from dust and debris. Use a dry cloth for cleaning.
- **Ventilation:** Periodically check that the cooling fans and vents are clear and unobstructed.
- **Connections:** Inspect battery cables and terminals regularly for tightness and signs of corrosion. Clean any corrosion with a wire brush and baking soda solution.
- **Storage:** If storing the inverter for an extended period, ensure it is clean, dry, and stored in a cool place. Disconnect it from the battery.

8. TROUBLESHOOTING

Refer to this section for common issues and their solutions:

Problem	Possible Cause	Solution
No power output	Inverter switch is OFF; Loose battery connections; Low battery voltage; Blown fuse.	Turn ON the inverter; Check and tighten battery cables; Recharge or replace battery; Check and replace fuse (if accessible and safe).
Overload alarm	Connected load exceeds 3500W.	Reduce the total power of connected devices.
Overheat alarm	Poor ventilation; Excessive ambient temperature; Overload.	Ensure clear airflow around the inverter; Move to a cooler environment; Reduce load.
Low/High voltage alarm	Battery voltage too low or too high.	Check battery voltage and charge/discharge as needed. Ensure battery is 24V.
Short circuit protection activated	Short circuit in connected device or wiring.	Disconnect all devices and check for faulty wiring or appliances.

INTELLIGENT PROTECTION SYSTEM



Overvoltage protection



Low voltage protection



Short circuit protection



Overload protection



Overheat protection



Figure 8.1: Intelligent Protection System. This image visually represents the various safety protections integrated into the inverter, such as overvoltage, low voltage, short circuit, overload, and overheat protection.

9. SPECIFICATIONS

Brand	MFUZOP
Model Name	PSW-E24V3500W
Input Voltage	24V DC
Output Voltage	220-240V AC
Continuous Power	3500W
Peak Power	7000W
Output Waveform	Pure Sine Wave
Conversion Efficiency	>95%
Output Ports	2 x EU AC Sockets, 1 x Type-C, 1 x USB 2.1A
Recommended Uses	Home, Solar, Battery, Vehicle Cigarette Lighter Powered

WECHSELRICHTER MIT REINER SINUS-TECHNOLOGIE

Effiziente und stabile Leistung

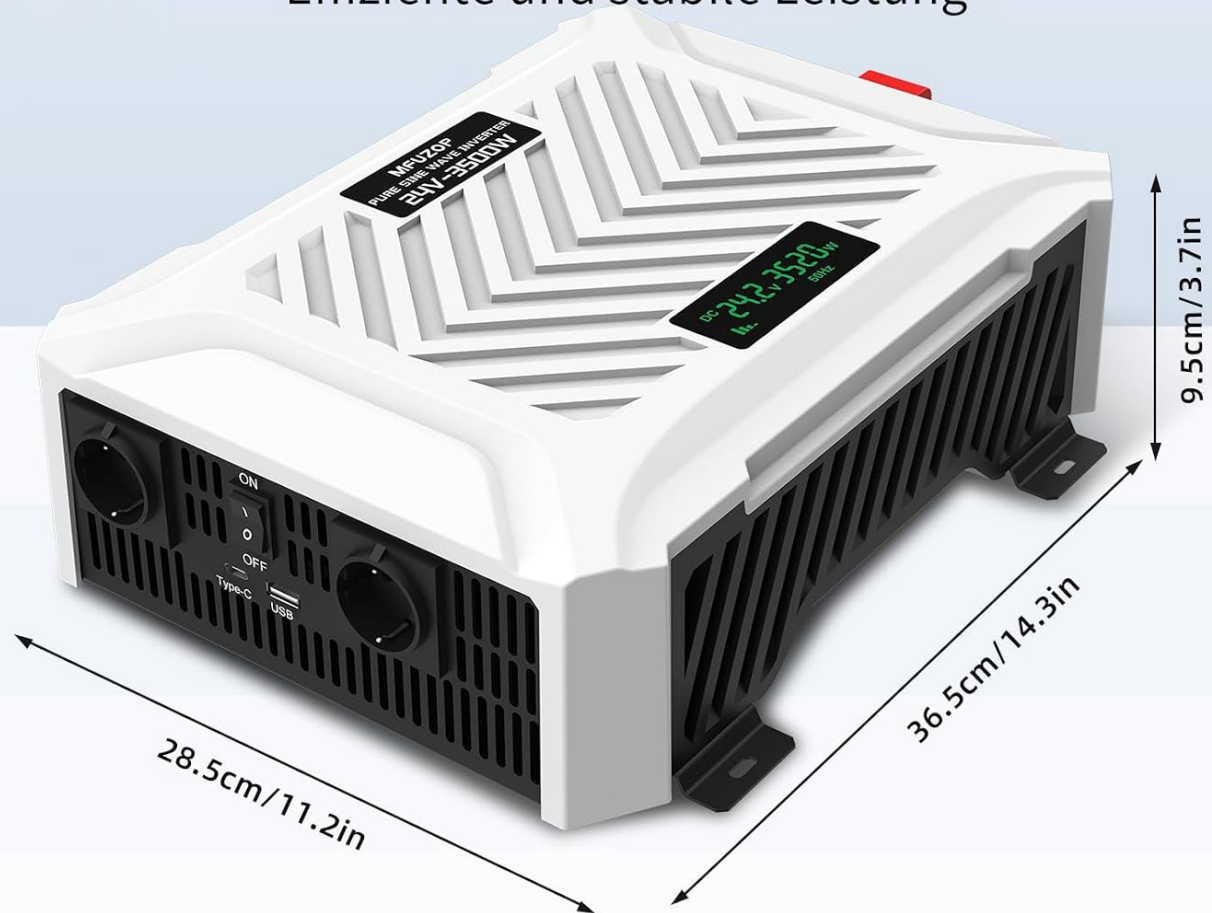


Figure 9.1: Inverter Dimensions. This image provides the physical dimensions of the inverter, including its length, width, and height, along with an illustration of the pure sine wave output.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact the retailer/manufacturer directly. Keep your purchase receipt as proof of purchase.

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.

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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

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