

MFUZOP PSW-12V1500W/24V3000W

MFUZOP Power Inverter User Manual

Model: PSW-12V1500W/24V3000W

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your MFUZOP Pure Sine Wave Power Inverter. This device converts DC (Direct Current) power from a battery into AC (Alternating Current) power, suitable for various electronic devices and appliances. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in electric shock, fire, serious injury, or death.

- Ensure proper ventilation around the inverter to prevent overheating.
- Do not expose the inverter to water, rain, snow, or spray.
- Do not operate the inverter if it has been damaged in any way.
- Keep children away from the inverter.
- Connect the inverter only to a battery with the correct voltage (12V or 24V DC).
- Always connect the positive (+) terminal of the inverter to the positive (+) terminal of the battery and the negative (-) terminal of the inverter to the negative (-) terminal of the battery. Reverse polarity can cause damage.
- Avoid connecting loads that exceed the inverter's rated power.
- Do not disassemble the inverter. Refer all servicing to qualified personnel.

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Kleinspannung
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Überhitzen
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The MFUZOP Power Inverter includes multiple safety protections: Overheating, Low Voltage, Short-circuit, Overload, Undervoltage, and Surge protection.

3. PRODUCT OVERVIEW

3.1 Components

Familiarize yourself with the various parts of your MFUZOP Power Inverter:

BESCHREIBUNG DES PANELS



Front and rear panel overview of the MFUZOP Power Inverter, highlighting the LCD display, AC outlets, USB and Type-C ports, DC input terminals, and cooling fan.

- **LCD Display:** Shows input voltage, output power, output frequency, and battery level.
- **AC Outlets:** Two standard EU sockets for connecting AC appliances.
- **USB Port:** 5V 2.1A output for charging USB-powered devices.
- **Type-C Port:** For charging compatible devices.
- **DC Input Terminals:** Red for positive (+), Black for negative (-) battery connection.
- **Cooling Fan:** Automatically activates to dissipate heat during operation.
- **ON/OFF Switch:** Powers the inverter on or off.

3.2 Intelligent Voltage Detection System

The inverter features an intelligent system that automatically detects the connected battery voltage (12V or 24V) and adjusts its operation mode accordingly.



The inverter automatically detects 12V or 24V battery input. For 12V, it provides 1500W rated power (3000W peak). For 24V, it provides 3000W rated power (6000W peak).

4. SETUP

4.1 Connecting to a Battery

1. Ensure the inverter's ON/OFF switch is in the OFF position.
2. Connect the red battery cable to the positive (+) terminal of the inverter and the positive (+) terminal of your 12V or 24V DC battery.
3. Connect the black battery cable to the negative (-) terminal of the inverter and the negative (-) terminal of your 12V or 24V DC battery.
4. Ensure all connections are tight and secure. Loose connections can cause overheating and damage.

4.2 Connecting to a Solar System (Optional)

The inverter can be integrated into a solar power system. Follow the diagram below for proper connection sequence:



Connection diagram for integrating the inverter into a solar power system: 1. Connect controller and battery. 2. Connect controller and PV panels. 3. Connect battery and inverter. 4. Connect inverter to load.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

1. After securing all connections, switch the inverter's ON/OFF button to the ON position.
2. The LCD display will illuminate, showing the current input voltage, output power, and frequency.
3. Connect your AC appliances to the AC outlets and USB/Type-C devices to their respective ports.
4. To turn off the inverter, disconnect all loads, then switch the ON/OFF button to the OFF position.

5.2 Understanding the LCD Display

The LCD display provides real-time information about the inverter's status:

- **Input Voltage (DC V):** Displays the current voltage of the connected battery.
- **Output Power (W):** Shows the current power consumption of connected AC loads.
- **Output Frequency (Hz):** Indicates the AC output frequency (typically 50Hz).

- **Battery Level Indicator:** Provides an approximate visual representation of the battery's charge level.

5.3 Application Examples

The MFUZOP Power Inverter is suitable for a wide range of applications, both indoors and outdoors, providing clean and stable power for your devices.



Indoor applications include powering laptops, projectors, coffee machines, and kitchen appliances.



Outdoor applications include powering tools like chainsaws and electric drills, as well as camping equipment.

6. MAINTENANCE

- **Cleaning:** Regularly clean the exterior of the inverter with a dry, soft cloth. Do not use liquids or abrasive cleaners.
- **Ventilation:** Ensure the cooling fan and ventilation openings are free from dust and obstructions. Blocked vents can lead to overheating.
- **Connections:** Periodically check battery cable connections for tightness. Loose connections can cause voltage drops and heat buildup.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place, away from direct sunlight and moisture.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output	Inverter switch is OFF Low battery voltage Loose battery connections	Turn switch ON Recharge or replace battery Tighten connections
Overload alarm	Connected load exceeds inverter capacity	Reduce load by disconnecting some appliances
Overheat alarm	Poor ventilation Excessive ambient temperature Prolonged high load operation	Ensure clear airflow around inverter Move to a cooler environment Reduce load or allow inverter to cool down
Low voltage alarm	Battery voltage is too low	Recharge the battery immediately

Problem	Possible Cause	Solution
Short-circuit protection	Short circuit in output wiring or connected appliance	Identify and resolve the short circuit. Disconnect faulty appliance.

8. SPECIFICATIONS

Feature	Detail
Brand	MFUZOP
Model Number	PSW-12V1500W/24V3000W
Input Voltage	12V DC / 24V DC (Intelligent Detection)
Output Voltage	230 Volts AC
Output Waveform	Pure Sine Wave
Rated Power (12V Mode)	1500 Watts
Peak Power (12V Mode)	3000 Watts
Rated Power (24V Mode)	3000 Watts
Peak Power (24V Mode)	6000 Watts
Efficiency	92%
Display Type	LCD
USB Output	5V 2.1A
Type-C Port	Included
Recommended Use	Vehicle
Item Weight	3.64 Kilograms
Country of Origin	China
Included Components	1 Inverter, 1 User Manual, 2 Cables

9. WARRANTY AND SUPPORT

MFUZOP is committed to providing reliable products and excellent customer service.

- **Warranty:** This product comes with a 5-year warranty.
- **Product Lifespan:** Designed for a 10-year lifespan.
- **Customer Service:** 24/7 online customer service is available for any inquiries or support needs.
- **Spare Parts:** Information regarding spare parts availability is currently not provided.



MFUZOP offers 24/7 customer service, a 10-year product lifespan, and a 5-year warranty.

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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

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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