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novopal PT3000W 24V

novopal Power Inverter Pure Sine Wave 3000W 24V Instruction Manual

Model: PT3000W 24V

1. Introduction

Thank you for choosing the novopal Pure Sine Wave Power Inverter. This device converts 24V DC battery power into 220V AC household power, providing a reliable and stable energy source for various applications. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your inverter. Please read it thoroughly before use.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in injury, damage to the inverter, or damage to connected devices.

- **Proper Ventilation:** Ensure the inverter is installed in a well-ventilated area. Do not block the ventilation openings.
- **Avoid Moisture:** Do not expose the inverter to rain, water, or excessive humidity.
- **Correct Voltage:** Connect the inverter only to a 24V DC power source. Connecting to a different voltage may cause damage.
- **Grounding:** Always ensure the inverter is properly grounded to prevent electrical shock.
- **Overload Protection:** Do not exceed the inverter's continuous power rating (3000W) or peak power rating (6000W). Overloading can damage the inverter and connected appliances.
- **Temperature:** Avoid operating the inverter in extremely high or low temperatures. The built-in fan helps maintain optimal operating temperature.
- **Flammable Materials:** Do not operate the inverter near flammable liquids or gases.
- **Children and Pets:** Keep the inverter out of reach of children and pets.
- **Disassembly:** Do not attempt to disassemble or modify the inverter. Refer all servicing to qualified personnel.



Figure 1: Pure Sine Wave Output for Sensitive Electronics



Figure 2: Efficient Heat Dissipation System

3. Package Contents

Upon opening the package, please verify that all the following items are included:

- 1 x novopal 3000W 24V Pure Sine Wave Power Inverter
- 1 x User Manual (English and Italian)
- 2 x Battery Cables (1 Red, 1 Black)
- 1 x Wired Remote Control (with 5m network cable)
- 4 x Spare Fuses
- 1 x Wrench
- 1 x Grounding Cable



Figure 3: Package Contents

4. Product Overview

The novopal 3000W 24V Pure Sine Wave Inverter is designed to provide clean and stable AC power from a DC source. It features multiple output ports and comprehensive protection mechanisms.

4.1 Front Panel Features

- **Power Indicator:** Lights up when the inverter is operational.
- **ON/OFF Switch:** Main power switch for the inverter.
- **Remote Control Port:** Connects the wired remote control.
- **USB Port (2.4A):** Provides 5V DC power for charging USB-compatible devices.
- **AC Outlets (x2):** Standard European 220V AC outlets for connecting appliances.

4.2 Rear Panel Features

- **Positive Terminal (+):** Red terminal for connecting the positive battery cable.
- **Negative Terminal (-):** Black terminal for connecting the negative battery cable.
- **Cooling Fans (x2):** Automatically activate to dissipate heat and maintain optimal operating temperature.
- **Grounding Post:** For connecting the grounding cable.



Figure 4: Inverter Front Panel



Figure 5: Inverter Rear Panel

5. Setup

Follow these steps for proper installation and connection of your inverter:

1. **Placement:** Choose a dry, cool, and well-ventilated location for the inverter. Ensure there is sufficient space around the unit for airflow.
2. **Grounding:** Connect the grounding cable from the inverter's grounding post to a reliable earth ground. This is crucial for safety.
3. **Battery Connection:**
    - Ensure the inverter's ON/OFF switch is in the 'OFF' position.
    - Connect the **red** battery cable to the inverter's **positive (+)** terminal and then to the battery's **positive (+)** terminal.
    - Connect the **black** battery cable to the inverter's **negative (-)** terminal and then to the battery's **negative (-)** terminal.

- Ensure all connections are tight and secure to prevent loose connections and sparking.

4. **Remote Control Connection:** Plug the 5-meter network cable from the wired remote control into the 'REMOTE' port on the inverter's front panel.



Figure 6: Example Solar System Connection

6. Operating Instructions

Once the inverter is properly installed and connected, follow these steps to operate it:

1. **Power On:** Flip the ON/OFF switch on the inverter's front panel to the 'ON' position. The power indicator light should illuminate. Alternatively, use the ON/OFF button on the wired remote control.
2. **Connect Appliances:** Plug your AC appliances into the 220V AC outlets on the inverter. For USB charging, connect your device to the USB port.
3. **Monitor Load:** Ensure the total power consumption of your connected appliances does not exceed the inverter's continuous power rating (3000W).
4. **Power Off:** When finished, turn off all connected appliances, then flip the inverter's ON/OFF switch to the 'OFF' position (or use the remote control).

6.1 Remote Control Usage

The wired remote control allows you to conveniently turn the inverter ON or OFF from a distance of up to 5 meters. It also features a battery level indicator.



Figure 7: Wired Remote Control in Use

6.2 Applications

This pure sine wave inverter is suitable for a wide range of applications, including sensitive electronics, household appliances, and power tools.



Figure 8: Wide Range of Applications



Figure 9: Multi-Use Scenarios

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your inverter:

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Ensure the ventilation openings are free from dust and debris. Do not use liquid cleaners.
- **Connection Check:** Regularly inspect all electrical connections (battery cables, grounding cable) to ensure they are tight and free from corrosion.
- **Ventilation:** Confirm that the cooling fans are operating correctly and are not obstructed.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.

8. Troubleshooting

This section addresses common issues you might encounter with your inverter.

Problem	Possible Cause	Solution
No power output	Inverter switch OFF Loose battery connections Low battery voltage Blown fuse	Turn ON the inverter Check and tighten connections Recharge or replace battery Replace fuses (use spare fuses provided)
Overload alarm/shutdown	Connected load exceeds 3000W	Reduce the total power of connected appliances
Overheating alarm/shutdown	Poor ventilation Excessive ambient temperature Blocked cooling fans	Ensure adequate ventilation Move inverter to a cooler environment Clear any obstructions from fans
Low voltage alarm/shutdown	Battery voltage too low	Recharge the battery immediately
High voltage alarm/shutdown	Input voltage too high	Check battery/power source voltage; ensure it is 24V DC

If the problem persists after attempting these solutions, please contact novopal customer support.

9. Specifications

Feature	Specification
Brand	novopal
Model Name	NOVOPAL 3000W Reiner Sinus Inversor (PT3000W 24V)
Continuous Power	3000 Watts
Peak Power	6000 Watts
Input Voltage	DC 24V
Output Voltage	AC 220V
Output Waveform	Pure Sine Wave
Frequency	50 Hz
USB Output	5V 2.4A
Number of AC Outlets	2

Feature	Specification
Remote Control Cable Length	5 meters
Dimensions (LxWxH)	42.5L x 11W x 16.5H cm
Recommended Battery Capacity	180 Ampere/hours (for 3000W)
Protections	Short circuit, Over/Under Input Voltage, Output Short Circuit, Overload, Overcurrent, Overheating
Certifications	CE



Figure 10: Recommended Battery Capacities

10. Warranty and Support

Your novopal Power Inverter comes with a**1-Year Warranty Against Manufacturer Defects**.
For technical support, warranty claims, or any questions regarding your product, please contact the seller, Novopal Mall, through your purchase platform. Please have your model number (PT3000W 24V) and purchase details ready when contacting support.

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