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> Novopal Power Inverter Pure Sine Wave 2000 Watt 12V DC to 110V/120V AC Converter- 4 AC Outlets Car Inverters with One USB Port,16.4Ft Remote Control-Peak Power 4000 Watt 2000W 12V

novopal NGY2000PUS12

Novopal 2000W Pure Sine Wave Power Inverter User Manual

Model: NGY2000PUS12

Brand: Novopal

1. INTRODUCTION

This user manual provides comprehensive instructions for the safe and efficient operation of your Novopal 2000W Pure Sine Wave Power Inverter. This device converts 12V DC battery power into 110V/120V AC household electricity, making it ideal for powering various electronic devices and appliances in vehicles, during camping, or in emergency situations.

Please read this manual thoroughly before installation and use to ensure proper functionality and to prevent damage to the unit or connected devices.

2. SAFETY INFORMATION

Adhering to these safety guidelines is crucial for preventing personal injury and damage to the inverter or connected equipment.

- Always connect the inverter to a 12V DC power source. Connecting to a different voltage may cause damage.
- Ensure proper ventilation around the inverter. Do not block the cooling fans or vents.
- Avoid exposing the inverter to water, rain, or excessive moisture.
- Do not operate the inverter near flammable materials or in environments with explosive gases.
- The inverter features built-in protection mechanisms including over-voltage, low-voltage, overload, short-circuit, over-heat, and polarity reverse protection. If a fault occurs, the inverter may shut down automatically.
- Always ensure the inverter is turned off before connecting or disconnecting batteries or AC loads.
- Do not attempt to open or modify the inverter. There are no user-serviceable parts inside.
- Ensure proper grounding (GND) connection to prevent electrical leakage.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Novopal 2000 Watt Pure Sine Wave Inverter
- Wired Remote On/Off Switch (16.4 ft cable)
- Black Battery Cable with Ring Terminals
- Red Battery Cable with Ring Terminals
- GND Earth Wire
- User Manual (this document)



Image: The Novopal 2000W Pure Sine Wave Inverter shown with its remote control, red and black battery cables with ring terminals, and spare fuses, illustrating the complete package contents.

4. PRODUCT OVERVIEW

The Novopal 2000W Pure Sine Wave Power Inverter is designed for reliable power conversion. It features multiple AC outlets and a USB port for versatile charging.

4.1 Inverter Components

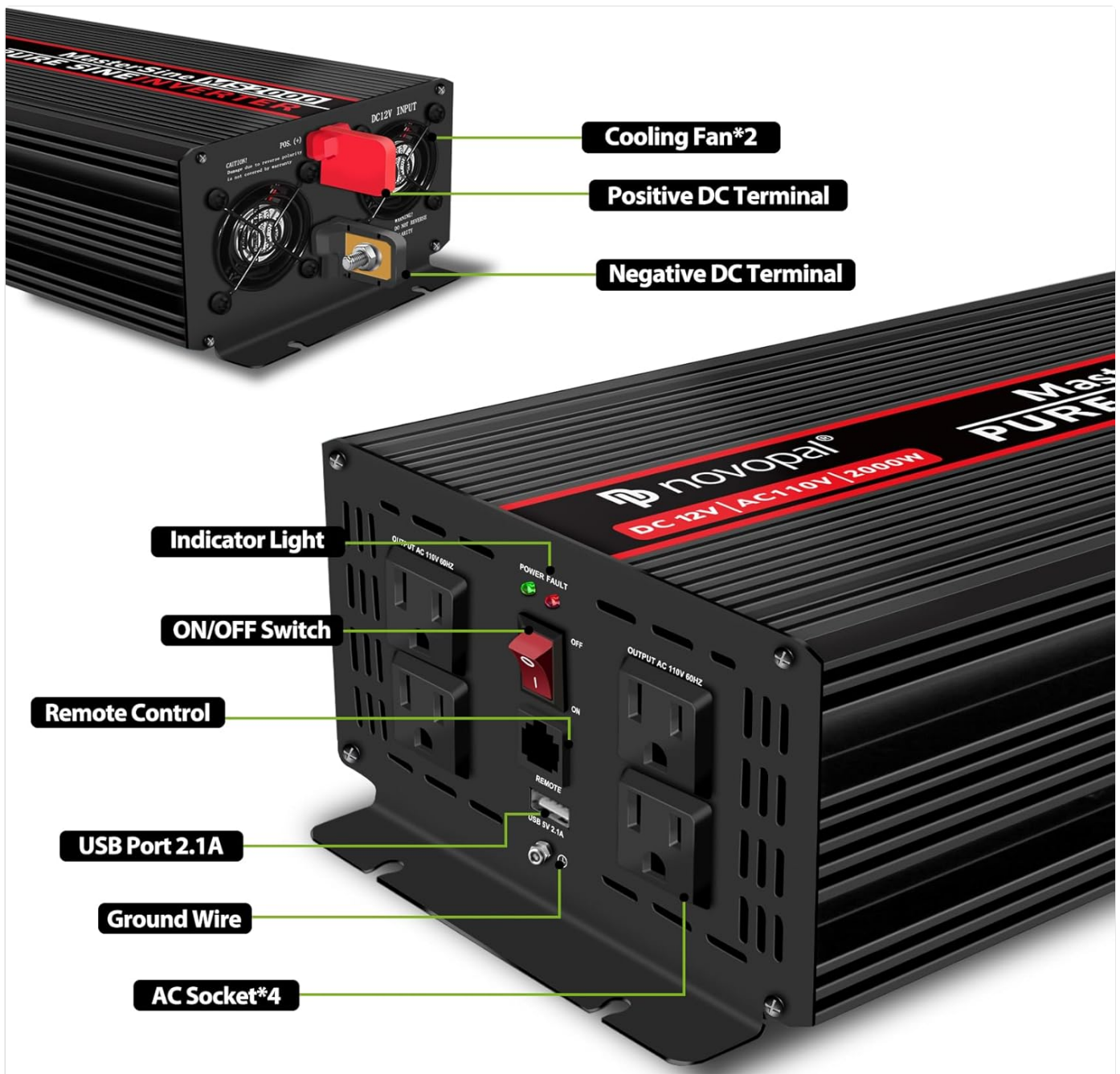


Image: A detailed view of the inverter, highlighting key components such as the AC outlets, ON/OFF switch, USB port, remote control port, ground wire connection, positive and negative DC terminals, and cooling fans.

- **AC Sockets (x4):** Standard 110V/120V AC outlets for connecting appliances.
- **ON/OFF Switch:** Main power control for the inverter.
- **USB Port (2.1A):** For charging USB-powered devices.
- **Remote Control Port:** Connects the wired remote switch.
- **Indicator Light:** Displays power status and fault conditions.
- **Positive DC Terminal:** Red terminal for positive battery connection.
- **Negative DC Terminal:** Black terminal for negative battery connection.
- **Cooling Fans (x2):** Temperature-controlled fans for heat dissipation.
- **Ground Wire Connection:** For safety grounding.

4.2 Remote Control

The included remote control allows for convenient ON/OFF operation from a distance, with a 16.4 ft cable. It also features a light display for monitoring battery level and working status.

INTELLIGENT REMOTE CONTROL

Switch ON or OFF
The cable is 16FT long (RJ45 port)



Tips: If the remote control is damaged, please contact us.

Image: The inverter alongside its remote control unit, demonstrating the ease of switching the inverter on or off remotely. The remote control displays battery level and power status.

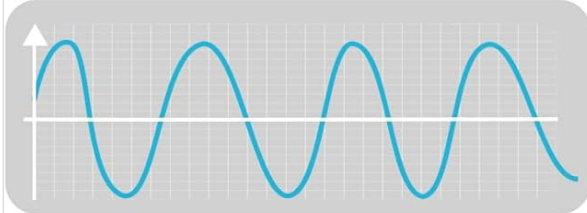
4.3 Pure Sine Wave Output

This inverter produces a pure sine wave output, which is identical to the AC power supplied by utility companies. This makes it safe for sensitive electronics and appliances, ensuring stable and reliable power without damage.

Pure Sine Wave Inverter

Stable output without damage

True pure sine wave



92% Efficiency



Testing & Certification



Image: A graphic showing the smooth waveform of a pure sine wave, indicating the inverter's 92% efficiency and testing/certification, alongside the inverter unit.

5. SETUP

Follow these steps for proper installation and setup of your Novopal power inverter.

5.1 Connecting to a 12V DC Power Source

1. Ensure the inverter's ON/OFF switch is in the "OFF" position.
2. Connect the red battery cable's ring terminal to the positive (+) DC terminal on the inverter. Tighten securely.
3. Connect the black battery cable's ring terminal to the negative (-) DC terminal on the inverter. Tighten securely.
4. Connect the other end of the red battery cable to the positive (+) terminal of your 12V battery.
5. Connect the other end of the black battery cable to the negative (-) terminal of your 12V battery.
6. Connect the GND earth wire to the grounding screw on the inverter, then connect the other end to a suitable ground point (e.g., vehicle chassis or earth ground).

5.2 Connecting the Remote Control

Plug the RJ45 connector of the remote control cable into the "REMOTE" port on the inverter. The remote control can then be used to power the inverter on or off.

Your browser does not support the video tag.

Video: This video demonstrates the connection of the remote control to the Novopal Pure Sine Wave Inverter and shows the inverter powering various devices like a blender, tablet, and smartphone, highlighting its ease of use and versatility.

6. OPERATING INSTRUCTIONS

Once the inverter is properly set up, you can begin using it to power your devices.

1. After connecting the inverter to the 12V battery, turn the inverter's main ON/OFF switch to the "ON" position.
2. If using the remote control, press the "ON/OFF" button on the remote. The power indicator on the remote will illuminate.
3. Plug your AC appliances into the 110V/120V AC outlets on the inverter.
4. For USB-powered devices, plug them into the 2.1A USB port.
5. Ensure the total wattage of all connected devices does not exceed the inverter's continuous power rating (2000W).
6. When finished, turn off the inverter using the main switch or the remote control, then disconnect your appliances.

Wide Compatibility

Suitable for a variety of home or outdoor appliances



Image: An illustration demonstrating the wide range of devices compatible with the Novopal inverter, including laptops, drones, phones, angle grinders, electric drills, microwave ovens, electric kettles, induction cookers, refrigerators, and LED TVs.

Aluminium Alloy Shell



Image: The Novopal inverter shown in an outdoor environment, simultaneously powering a microwave, a smartphone, a tablet, and a drone, illustrating its practical use for various electronic devices.

7. MAINTENANCE

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

- Keep the inverter clean and free from dust and debris. Use a dry cloth for cleaning.
- Periodically check all cable connections to ensure they are tight and secure. Loose connections can cause overheating.
- Ensure the cooling fans and vents are unobstructed to allow for proper airflow and heat dissipation.
- Store the inverter in a cool, dry place when not in use.



Image: An internal diagram highlighting the two cooling fans within the inverter, emphasizing their role in maintaining optimal operating temperature.

8. TROUBLESHOOTING

If you encounter issues with your inverter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inverter not turning on	Loose battery connections, low battery voltage, inverter switch off, remote not connected.	Check battery cable connections. Ensure battery voltage is sufficient (12V). Turn on the inverter's main switch. Verify remote control cable is securely plugged in.
No AC output	Overload, short circuit, over-heat protection activated, faulty appliance.	Reduce connected load. Check appliances for short circuits. Allow inverter to cool down if overheated. Reset inverter by turning off and on.
Low power output or intermittent operation	Insufficient battery capacity, weak battery, long or thin input cables.	Ensure battery can supply required current. Charge or replace battery. Use thicker, shorter battery cables if possible.
Audible alarm	Low battery voltage, overload, overheating.	Check battery voltage and charge if low. Reduce load. Ensure proper ventilation.



Image: The Novopal inverter displayed with icons symbolizing its comprehensive protection features, including temperature control, voltage monitoring, overload protection, polarity reverse protection, and short-circuit protection.

9. SPECIFICATIONS

Feature	Detail
Model Name	NGY2000PUS12
Continuous Power	2000 Watts
Peak Power	4000 Watts
DC Input Voltage	12V DC
AC Output Voltage	110V/120V AC
Output Waveform	Pure Sine Wave
Product Dimensions (L x W x H)	14.56 x 6.49 x 3.35 inches
Item Weight	8.36 pounds
Power Source	Solar and Battery Powered
Recommended Uses	Car, Travel, Camping, Household appliances

10. WARRANTY AND SUPPORT

Novopal is committed to providing high-quality products and customer satisfaction. For any issues or inquiries regarding your power inverter, please contact Novopal customer support.

Contact information for support is typically available on the product packaging or the official Novopal website. Please have your model number (NGY2000PUS12) and purchase details ready when contacting support.

For specific warranty details, please refer to the warranty card included with your product or contact Novopal directly via email as mentioned in the product features.

