

Go Power GP-ISW2000-12

Go Power GP-ISW2000-12 Pure Sine Wave Inverter Instruction Manual

Brand: Go Power | Model: GP-ISW2000-12

1. INTRODUCTION

The Go Power GP-ISW2000-12 Pure Sine Wave Inverter converts 12-volt DC battery power into 120-volt AC household power. This inverter is designed to continuously run loads up to 2000 watts and can handle surge loads up to 4000 watts for short durations. It is suitable for various applications, including vehicles and industrial use, providing a clean and reliable power source for sensitive electronics.

Key Features:

- **Pure Sine Wave Output:** Provides a clean, reliable source of AC power, ideal for running sensitive electronics and larger devices without interference.
- **High Power Capacity:** Powers large devices with up to 2000 watts continuous power and 4000 watts surge, making it ideal for appliances and heavy-duty backup power.
- **Slim, Space-Saving Design:** Designed with a slim profile, this inverter fits easily into small spaces, offering maximum power without occupying much room.
- **Dual 20 Amp GFCI Outlets:** Equipped with two 20 amp GFCI outlets, allowing you to connect and power multiple devices simultaneously.
- **Reliable and Safe:** UL458 listed and includes all industry-standard safety features, along with a 2-year coverage for peace of mind.

2. SAFETY INFORMATION

Always prioritize safety during installation and operation. Failure to follow safety guidelines can result in injury or damage to the equipment.

- **Ventilation:** Ensure adequate ventilation around the inverter to prevent overheating.
- **Battery Connections:** Always connect the positive (+) terminal first, then the negative (-) terminal. When

disconnecting, disconnect the negative (-) terminal first.

- **Spark Prevention:** Avoid making or breaking connections to the battery in the presence of flammable gases or liquids to prevent sparks.
- **Grounding:** Ensure the inverter chassis is properly grounded.
- **Battery Type:** This inverter is designed for 12V lead-acid or Li-ion batteries only.

3. PRODUCT OVERVIEW

Front Panel



The front panel of the GP-ISW2000-12 inverter features two 20 Amp GFCI (Ground Fault Circuit Interrupter) outlets for connecting AC devices. A main power switch is located next to the outlets for turning the inverter on or off. Indicator lights provide status information regarding battery voltage, output power, and any fault conditions.

Rear Panel



The rear panel includes the DC input terminals (positive and negative) for connecting to your 12V battery bank. Two cooling fans are present to dissipate heat during operation, ensuring optimal performance and longevity. A chassis ground terminal is provided for proper grounding, and a remote port allows for connection of an optional remote control unit.

4. SETUP AND INSTALLATION

Unboxing and Components

Your browser does not support the video tag.

This video provides an overview of the Go Power! GP-ISW2000-12 Industrial Pure Sine Wave Inverter, including its components and basic features. It demonstrates the physical aspects of the inverter and what to expect upon unboxing.

Connecting to Battery

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This video demonstrates the process of connecting the inverter to a battery bank, highlighting the importance of correct positive and negative terminal connections. Ensure all connections are secure and properly insulated. Always connect the positive (+) cable first, then the negative (-) cable. When disconnecting, reverse the order.

Remote Control Installation

The GP-ISW2000-12 supports an optional remote control (GP-ISW-R-12) for convenient operation. Connect the remote control cable to the designated remote port on the rear panel of the inverter. This allows you to turn the inverter on/off and monitor its status from a distance, helping to conserve battery power when AC output is not needed.

5. OPERATING THE INVERTER

Turning On/Off

To turn the inverter on, press the main power switch located on the front panel. The indicator lights will illuminate, showing the inverter's status. To turn it off, press the same switch. If using a remote control, use the on/off switch on the remote unit.

Power Save Mode

The inverter features a Power Save Mode to minimize idle power consumption. When enabled, the inverter will only activate its AC output when a sufficient load is detected. This feature is particularly useful for conserving battery life in off-grid or mobile applications. Refer to the full manual for detailed instructions on enabling and disabling Power Save Mode.

Connecting AC Devices

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This video demonstrates connecting various AC devices to a pure sine wave inverter, including a microwave and an electric drill, to showcase its capability to handle different load types. Plug your AC appliances directly into the GFCI outlets on the front panel. Ensure the total continuous wattage of all connected devices does not exceed 2000 watts. For devices with high startup surges, ensure the inverter's surge capacity (4000W) is sufficient.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Go Power GP-ISW2000-12 inverter.

- **Cleanliness:** Keep the inverter clean and free from dust and debris. Ensure the cooling fan vents are unobstructed.
- **Connection Checks:** Periodically inspect all battery and AC connections for tightness and corrosion. Loose connections can lead to overheating and reduced performance.
- **Battery Health:** Monitor your battery bank's health and charge levels. A healthy battery is crucial for inverter performance.
- **Ventilation:** Confirm that the installation area continues to provide adequate airflow for cooling.

7. TROUBLESHOOTING

This section provides solutions for common issues you might encounter with your inverter.

Issue	Possible Cause	Solution
No AC Output / Inverter Not Turning On	Low battery voltage, loose connections, tripped GFCI, internal fault.	Check battery voltage and charge if low. Secure all battery cables. Press the reset button on the GFCI outlets. Perform a hard reset by disconnecting battery cables for an hour, then reconnect.
Overload Warning	Connected devices exceed inverter's continuous or surge capacity.	Reduce the number of connected devices or use lower wattage appliances. Ensure surge loads do not exceed 4000W for more than 1 second.
Overheating	Poor ventilation, excessive load, high ambient temperature.	Ensure inverter is in a well-ventilated area. Clear any obstructions from cooling fans. Reduce load.

Issue	Possible Cause	Solution
AC Outlet Mechanical Failure	Internal component detachment due to vibration or manufacturing defect.	Contact Go Power customer support for warranty service or repair. Do not attempt to fix internal components yourself.

8. SPECIFICATIONS

Specification	Value
Model Name	GP-ISW2000-12
Wattage (Continuous)	2000W
Wattage (Surge)	4000W
Input Voltage	12V DC
Output Voltage	120V AC
Output Waveform	Pure Sine Wave
Outlets	Dual 20 Amp GFCI
Product Dimensions	18 x 10 x 5 inches
Item Weight	11.55 pounds

9. WARRANTY

The Go Power GP-ISW2000-12 Pure Sine Wave Inverter comes with a 2-year coverage, ensuring peace of mind regarding product quality and performance. Please retain your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or warranty inquiries, please contact Go Power customer support:

- **Website:** gpelectric.com
- **Phone:** Refer to the product packaging or website for the latest contact numbers.

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