Go Power GP-ISW-2000-24

Go Power! GP-ISW2000-24V Industrial Pure Sine Wave Inverter User Manual

Model: GP-ISW-2000-24

1. Introduction

This manual provides essential information for the safe and efficient operation of your Go Power! GP-ISW2000-24V Industrial Pure Sine Wave Inverter. This inverter is designed to convert 24 Volt DC battery power into 120 Volt AC household power, suitable for a wide range of applications including recreational vehicles, marine, and off-grid systems. It delivers 2000 watts of continuous pure sine wave power, ensuring compatibility with sensitive electronics.

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

2. Safety Information

Always observe the following safety precautions to reduce the risk of electric shock, fire, or injury:

- **Read all instructions:** Before operating the inverter, read all instructions and cautionary markings on the inverter, the batteries, and all appropriate sections of this manual.
- **Work in a well-ventilated area:** Batteries can produce explosive gases. Ensure adequate ventilation and avoid open flames or sparks near the battery bank.
- **Avoid moisture:** Do not expose the inverter to rain, snow, spray, or bilge water.
- **Proper grounding:** The inverter must be properly grounded. Refer to the installation section for details.
- **Use correct cables:** Ensure DC input cables are of adequate gauge and length to handle the current and minimize voltage drop.
- **Disconnect power:** Always disconnect the inverter from the battery before performing any maintenance or cleaning.
- **Qualified personnel:** Installation and servicing should be performed by qualified personnel familiar with electrical systems and safety procedures.
- **Do not open the inverter:** There are no user-serviceable parts inside. Opening the inverter voids the warranty.

3. Product Overview

The Go Power! GP-ISW2000-24V inverter is a robust power conversion device. Familiarize yourself with its

components:

Image 1: Front Panel (AC Output Side)

This image displays the front panel of the Go Power! GP-ISW2000-24V inverter. Key features visible include two GFCI-equipped AC output receptacles, a power ON/OFF switch, and a remote port. Also visible are ventilation grilles and a DIP switch for configuration.

Image 2: Rear Panel (DC Input Side)

This image shows the rear panel of the Go Power! GP-ISW2000-24V inverter. Prominently featured are the heavy-duty DC input terminals for connecting to a 24V battery bank, clearly marked for positive (+) and negative (-) connections. A grounding lug is also visible, along with additional ventilation and a terminal block for remote control wiring.

Key Features:

- 2000 Watts Continuous Power Output
- 24 Volt DC Input
- Pure Sine Wave Output for sensitive electronics
- Two GFCI-equipped AC Outlets
- Durable, low-profile design
- Remote Port for optional remote control

4. Installation and Setup

Proper installation is critical for the safe and efficient operation of your inverter. Consult a qualified electrician if you are unsure about any steps.

4.1 Mounting the Inverter

- Mount the inverter in a dry, cool, and well-ventilated area.
- Ensure there is at least 6 inches of clear space around the inverter for proper airflow.
- Mount the inverter horizontally on a flat, non-combustible surface.
- Avoid mounting near flammable materials, fuel tanks, or in battery compartments where explosive gases may accumulate.

4.2 DC Input Connections (to Battery Bank)

WARNING: Before making any connections, ensure the inverter's power switch is in the OFF position and disconnect the battery bank's negative terminal.

1. **Cable Sizing:** Use appropriately sized DC cables for your 24V battery bank. For a 2000W inverter, heavy gauge cables are required to minimize voltage drop and prevent overheating. Consult a cable sizing chart or a qualified professional.
2. **Fuse/Breaker:** Install a properly rated DC fuse or circuit breaker (e.g., 100A for 24V systems) as close to the battery positive terminal as possible.
3. **Connect Negative:** Connect the negative (-) DC cable from the battery bank to the negative (-) terminal on the inverter (refer to Image 2). Ensure a secure connection.
4. **Connect Positive:** Connect the positive (+) DC cable from the battery bank, through the fuse/breaker, to the positive (+) terminal on the inverter (refer to Image 2). Ensure a secure connection.
5. **Reconnect Battery:** Once all connections are secure, reconnect the negative terminal of your battery bank.

CAUTION: Loose connections can cause excessive voltage drop and overheating of cables and terminals, potentially leading to fire.

4.3 AC Output Connections

The inverter provides two standard GFCI-equipped 120V AC outlets (refer to Image 1). You can plug your AC appliances directly into these outlets.

- Ensure the total wattage of connected appliances does not exceed the inverter's continuous output rating (2000W).
- For hardwiring to an AC distribution panel, consult a qualified electrician to ensure compliance with local electrical codes and proper transfer switch installation.

4.4 Grounding

The inverter must be properly grounded. Connect a heavy-gauge wire from the inverter's grounding lug (refer to

Image 2) to a reliable earth ground (e.g., vehicle chassis, boat hull ground, or an earth ground rod).

4.5 Remote Control (Optional)

The inverter features a remote port for connecting an optional remote control panel. This allows for convenient power management from a distance. Refer to the remote control's specific manual for installation and operation instructions.

5. Operating Instructions

5.1 Turning the Inverter On/Off

1. **To Turn On:** Ensure all DC and AC connections are secure. Flip the ON/OFF switch on the inverter's front panel (refer to Image 1) to the "ON" position. The inverter will perform a self-test, and the indicator lights will illuminate.
2. **To Turn Off:** Disconnect any AC loads from the inverter. Flip the ON/OFF switch to the "OFF" position.

If using an optional remote control, ensure the inverter's main switch is set to the "Remote On/Off" position (if available, consult your remote manual), and then use the remote to control power.

5.2 Connecting AC Loads

- Plug your 120V AC appliances directly into the GFCI outlets on the inverter's front panel.
- Always ensure the total continuous power draw of all connected appliances does not exceed 2000 watts.
- For appliances with high surge requirements (e.g., motors, refrigerators), ensure the inverter's surge capacity can handle the initial startup current.

5.3 Understanding Indicators and Alarms

The inverter is equipped with indicator lights and audible alarms to communicate its status and potential issues. While specific details are in the full product manual, common indicators include:

- **Green LED:** Normal operation, AC output present.
- **Red LED / Fault Light:** Indicates a fault condition (e.g., overload, over-temperature, low battery voltage, high battery voltage, short circuit). An audible alarm may accompany this.
- **Audible Beeps:** Often signal a low battery warning or a fault condition. Consult the troubleshooting section for specific beep patterns.

6. Maintenance

The Go Power! GP-ISW2000-24V inverter requires minimal maintenance to ensure long-term reliable operation.

- **Cleaning:** Periodically clean the exterior of the inverter with a dry cloth. Ensure ventilation openings are free from dust and debris. Do not use liquid cleaners or solvents.
- **Connections:** Annually inspect all DC and AC connections for tightness. Loose connections can lead to overheating and poor performance.
- **Environment:** Ensure the inverter remains in a cool, dry, and well-ventilated environment. High temperatures can reduce the inverter's lifespan.
- **Battery Maintenance:** Regularly check your battery bank's charge level and condition. Follow the battery manufacturer's maintenance guidelines.

7. Troubleshooting

This section addresses common issues you might encounter with your inverter. For problems not listed here,

contact Go Power! technical support.

Problem	Possible Cause	Solution
No AC output, inverter OFF.	Inverter switch is OFF. No DC input power. Blown DC fuse/breaker.	Turn inverter ON. Check battery connections. Check and replace DC fuse/reset breaker.
Inverter shuts down, red fault light, audible alarm.	Overload. Low battery voltage. Over-temperature. Short circuit on AC output.	Reduce AC load. Recharge/check battery bank. Ensure adequate ventilation. Disconnect AC loads, check wiring.
AC appliance not working.	Appliance faulty. GFCI tripped. Inverter not providing enough power.	Test appliance on known good AC source. Reset GFCI outlet on inverter. Check appliance wattage against inverter capacity.
Remote control issues (e.g., incorrect voltage display, beeping).	Faulty remote cable or unit. Inverter not set to remote mode.	Ensure remote cable is securely connected. Verify inverter's main switch is in "Remote On/Off" position. If issues persist, contact Go Power! support.

8. Specifications

Technical specifications for the Go Power! GP-ISW2000-24V Industrial Pure Sine Wave Inverter:

Feature	Specification
Model Number	GP-ISW-2000-24
Continuous Output Power	2000 Watts
DC Input Voltage	24 Volts DC (Nominal)
AC Output Voltage	120 Volts AC
Output Waveform	Pure Sine Wave
AC Outlets	Two GFCI-equipped
Dimensions (L x W x H)	19 x 6 x 12 inches
Weight	1 pounds
Recommended Uses	Camping, Household appliances, Recreational Vehicle
Color	Black

9. Warranty Information

The Go Power! GP-ISW2000-24V Industrial Pure Sine Wave Inverter comes with a**2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service.

Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by improper installation, misuse, abuse, unauthorized modifications, or natural disasters. For full warranty terms and conditions, please refer to the official Go Power! website or contact their customer service.

10. Customer Support

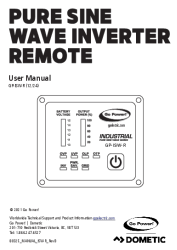
If you require technical assistance, have questions about installation, or need to report a problem with your Go Power! GP-ISW2000-24V inverter, please contact Go Power! customer support.

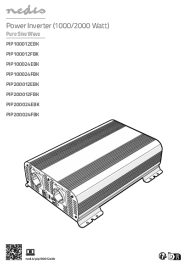
For the most up-to-date contact information, please visit the official Go Power! website:

Go Power! Official Website

When contacting support, please have your inverter model number (GP-ISW-2000-24) and proof of purchase readily available.

Related Documents - GP-ISW-2000-24

	Go Power! GP-ISW-R Pure Sine Wave Inverter Remote User Manual User manual for the Go Power! GP-ISW-R Pure Sine Wave Inverter Remote, detailing its features, specifications, front panel controls, rear panel connections, and operational indicators.
	Intelligent Power Inverter Operation Manual & User Guide | CHANTOWER Comprehensive user manual and operation instructions for CHANTOWER Intelligent Power Inverters. Learn about product features, connection methods, operating environment, troubleshooting common problems, and warranty terms.
	TY-PSW-4000 Pure Sine Wave Power Inverter User Manual and Specifications Comprehensive user manual and specifications for the TY-PSW-4000 Pure Sine Wave Inverter, featuring 12V/24V intelligent identification, 1200W/2300W rated power, and essential protective functions for reliable power conversion.

	[Nedis Power Inverter (1000/2000 Watt) Pure Sine Wave - User Manual and Quick Start Guide] Comprehensive guide for the Nedis Power Inverter (1000/2000 Watt) Pure Sine Wave. Includes setup, safety instructions, connection details for AC sockets and USB devices, troubleshooting, and disposal information. Model numbers: PIP100012EBK, PIP100012FBK, PIP100024EBK, PIP100024FBK, PIP200012EBK, PIP200012FBK, PIP200024EBK, PIP200024FBK.
	[ELINZ Pure Sine Wave Inverter User Manual: Installation, Operation, and Troubleshooting] Comprehensive user manual for ELINZ Pure Sine Wave Inverters, covering installation, safety precautions, operating tips, troubleshooting, and technical specifications. Learn how to safely connect and use your ELINZ inverter for various applications.
	[Powertech MI5740 2000W Pure Sine Wave Inverter User Manual] User manual for the Powertech MI5740 2000W 12VDC to 240VAC Pure Sine Wave Inverter. This guide details inverter types, safety precautions, installation, remote operation, and technical specifications for reliable power conversion.