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› [Go Power GP-IC2000-12-PKG 3-in-1 Inverter Charger Instruction Manual](#)

Go Power GP-IC2000-12-PKG

Go Power GP-IC2000-12-PKG 3-in-1 Inverter Charger Instruction Manual

MODEL: GP-IC2000-12-PKG

Brand: Go Power

1. INTRODUCTION

The Go Power GP-IC2000-12-PKG is a versatile 3-in-1 unit designed for RV, marine, and off-grid power systems. It integrates a 2000-watt pure sine wave inverter, a 100-amp battery charger, and a dual 50-amp transfer switch into a single, compact device. This system provides stable and clean 120V AC power from a 12V DC battery bank, suitable for sensitive electronics and various appliances. It also features a Power Share function to boost output for high-demand loads and comes with a battery temperature sensor and a digital remote for comprehensive control and monitoring.



Figure 1: Go Power GP-IC2000-12-PKG 3-in-1 Inverter Charger with included remote.

2. KEY FEATURES

- **2000-Watt Pure Sine Wave Output:** Delivers stable and clean 120V AC power with a 3400W surge capacity, ideal for sensitive electronics such as computers, medical equipment, refrigerators, and microwaves, ensuring smooth operation without interference.
- **Integrated 100 Amp Charger & Dual 50 Amp Transfer Switch:** Combines inverter, charger, and transfer switch into a single, easy-to-install unit, reducing setup time and eliminating the need for additional components.
- **Power Share Feature:** Allows combining the 2000-watt inverter output with your generator's power, boosting total output to 4000 watts, which is ideal for starting larger appliances like air conditioners.
- **High Efficiency:** Operates at 90% efficiency, maximizing energy usage for cost-effective off-grid, RV, or marine setups.
- **Durable & Certified:** UL458 and UL1741 certified for safety and reliability, ensuring dependable performance.

3. WHAT'S IN THE Box

- GP-IC2000-12 Inverter Charger Unit
- GP-ICR-50 Digital Remote
- Go Power Battery Temperature Sensor

4. SPECIFICATIONS

Product Dimensions	12.6 x 13.7 x 7.9 inches
Item Weight	38.7 pounds
Model Number	GP-IC2000-12-PKG
Wattage	2000 watts
Surge Capacity	3400 watts
Charger Output	100 amps
Transfer Switch	Dual 50 amps
Power Source	Solar Powered (compatible)
Certifications	UL458, UL1741

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your Go Power Inverter Charger. Always ensure the unit is turned off and disconnected from any power sources before beginning installation.

5.1 Physical Mounting

Mount the inverter charger in a dry, well-ventilated area. Ensure at least 6 inches of clearance around the unit for proper heat dissipation. The unit can be mounted horizontally or vertically, but ensure the cooling fins are not obstructed.

5.2 Battery Connections

Connect the battery cables to the inverter charger. It is critical to connect the positive (+) cable first, followed by the negative (-) cable. Use appropriate gauge cables for your system to minimize voltage drop and ensure safety. Ensure all connections are tight and secure.

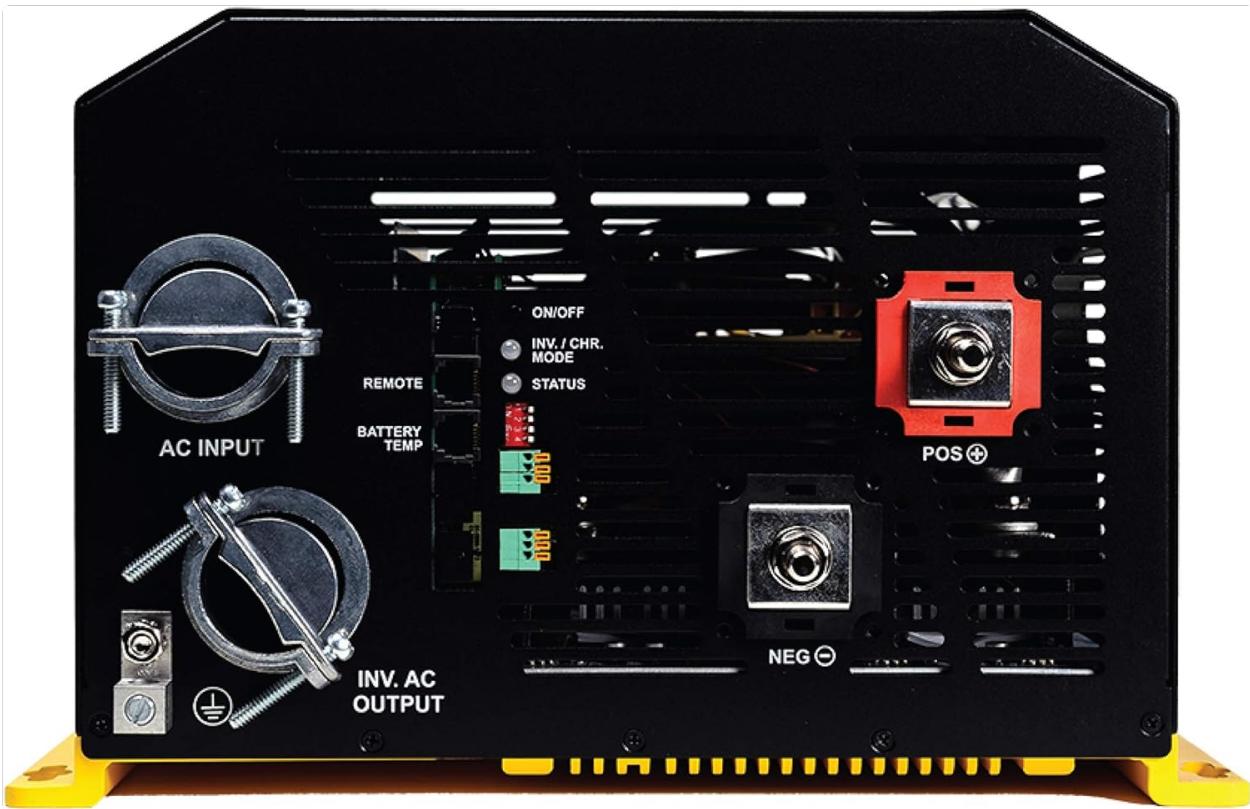


Figure 2: Rear panel of the Inverter Charger with DC input terminals (POS+, NEG-) and AC input/output connections.

Safe Battery Connection Tutorial

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Video 1: This tutorial demonstrates the safe method for connecting a battery bank to an inverter-charger, including the use of a resistor for pre-charge to prevent sparks and equipment damage. It highlights the importance of setting battery type and priority settings as outlined in the manual.

5.3 AC Wiring

Connect your AC input (shore power or generator) and AC output (to your loads) to the designated terminals on the inverter charger. The dual 50-amp transfer switch will automatically manage the AC power flow. Consult a qualified electrician if you are unsure about AC wiring procedures.

5.4 Remote Control Connection

Connect the GP-ICR-50 digital remote to the inverter charger using the provided cable. This remote allows for convenient monitoring and control of the unit's functions.

ICR-50 REMOTE



The remote features a digital display and menu that offers simple operation, while providing detailed operational data about your inverter charger.

Figure 3: The ICR-50 Inverter Charger Remote features a digital display for operational data.

Go Power Inverter Installation Overview

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Video 2: This video provides an overview of the Go Power! GP-ISW2000-12 Industrial Pure Sine Wave Inverter, including unboxing, front and rear panel features, dip switch settings, and general installation steps for DC and AC connections. While a different model, many principles apply.

6. OPERATION

Once installed, the Go Power Inverter Charger is designed for user-friendly operation. The remote control

provides access to various settings and real-time data.

6.1 Powering On/Off

Use the ON/OFF switch on the remote or the main unit to activate or deactivate the inverter function. The unit will automatically switch between inverter and charger modes based on the availability of shore power or generator input.

6.2 Power Share Feature

The Power Share feature allows the inverter to supplement a limited AC source (like a small generator) with power from the battery bank. If your generator provides 2000 watts and you need 4000 watts to start an appliance, the inverter can supply the additional 2000 watts from the battery. Once the appliance is running and its power draw decreases, the inverter will revert to charging the batteries with any surplus power from the generator.

6.3 Monitoring with the Remote

The GP-ICR-50 remote displays critical information such as battery voltage, AC output, load level, and charging status. Refer to the remote's specific instructions for detailed navigation and setting adjustments.

7. MAINTENANCE

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

- **Inspect Connections:** Periodically check all DC and AC connections for tightness and corrosion. Loose connections can lead to overheating and poor performance.
- **Clean Vents:** Ensure the cooling vents on the unit are free from dust and debris to prevent overheating. Use a soft brush or compressed air for cleaning.
- **Battery Health:** Monitor your battery bank's health and charge levels regularly. Ensure batteries are properly maintained according to their manufacturer's guidelines.
- **Environmental Conditions:** Keep the inverter charger in a dry, cool environment, away from direct sunlight, moisture, and flammable materials.

8. TROUBLESHOOTING

If you encounter issues with your Go Power Inverter Charger, refer to the following common troubleshooting steps:

- **No Power Output:** Check all battery and AC connections. Ensure the inverter is turned on. Verify battery voltage is within the operating range. Check for tripped circuit breakers or blown fuses in your system.
- **Overload Alarm:** Reduce the load connected to the inverter. The unit may have temporarily shut down due to excessive power draw. Disconnect some appliances and restart the inverter.
- **Low Battery Voltage Alarm:** This indicates your battery bank is depleted. Connect to a charging source (shore power, generator, or solar) to recharge the batteries.
- **High Temperature Alarm:** Ensure the inverter's cooling vents are clear and the unit is in a well-ventilated area. Reduce the load if operating in high ambient temperatures.
- **Remote Not Responding:** Check the connection cable between the remote and the inverter. Ensure the main unit has power.

For persistent issues, consult the full user manual or contact Go Power customer support.

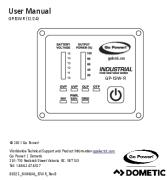
9. WARRANTY AND SUPPORT

The Go Power GP-IC2000-12-PKG Inverter Charger comes with a **3-year warranty**. This warranty covers defects in materials and workmanship under normal use and service. For warranty claims, technical support, or service inquiries, please refer to the contact information provided in your product packaging or visit the official Go Power website.

Related Documents - GP-IC2000-12-PKG

A thumbnail image of the ALLWEI 2000W Pure Sine Wave Power Inverter P2000-2 User Manual, showing the front cover with the product name and a red inverter image.	<p>ALLWEI 2000W Pure Sine Wave Power Inverter P2000-2 User Manual 12V DC to 110V AC</p> <p>Comprehensive user manual for the ALLWEI 2000W Pure Sine Wave Power Inverter (Model P2000-2). Get detailed instructions on installation, operation, safety precautions, troubleshooting, and specifications for your 12V DC to 110V AC power inverter.</p>
A thumbnail image of the 'How to Ground an Inverter Safely and Effectively' guide, showing the front cover with the title and a red inverter image.	<p>How to Ground an Inverter Safely and Effectively</p> <p>Essential guide on grounding power inverters for safety and optimal performance. Covers various installation scenarios including indoor, outdoor, and vehicle use, with important warnings.</p>
A thumbnail image of the Dakota Lithium 2000W Pure Sine Wave Inverter Instruction Manual, showing the front cover with the product name and a red inverter image.	<p>Dakota Lithium 2000W Pure Sine Wave Inverter Instruction Manual</p> <p>Comprehensive instruction manual for the Dakota Lithium 2000W Pure Sine Wave Inverter, covering operation, specifications, safety guidelines, installation, troubleshooting, and connection procedures.</p>
A thumbnail image of the Nedis Power Inverter (1000/2000 Watt) Pure Sine Wave Quick Start Guide, showing the front cover with the product name and a black inverter image.	<p>Nedis Power Inverter (1000/2000 Watt) Pure Sine Wave Quick Start Guide</p> <p>This document provides a quick start guide for the Nedis Power Inverter (1000/2000 Watt) Pure Sine Wave. It covers intended use, safety instructions, mounting, connecting the inverter and remote control, powering devices via AC socket or USB, and troubleshooting. Models covered include PIP100012EBK, PIP100012FBK, PIP100024EBK, PIP100024FBK, PIP200012EBK, PIP200012FBK, PIP200024EBK, and PIP200024FBK.</p>
A thumbnail image of the ECO-WORTHY Pure Sine Wave Inverter Instruction Manual, showing the front cover with the product name and a black inverter image.	<p>ECO-WORTHY Pure Sine Wave Inverter Instruction Manual</p> <p>This manual provides detailed instructions for the installation, operation, and troubleshooting of the ECO-WORTHY Pure Sine Wave Inverter. It covers safety information, power requirements, front and rear panel descriptions, LCD display, remote control, hardwiring, battery selection, and specifications for KP1100 and KP2000 models.</p>

**PURE SINE
WAVE INVERTER
REMOTE**



[**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.