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> Go Power IC Series 3000-Watt Power Inverter Charger - GP-IC3000-12 User Manual

Go Power GP-IC3000-12

Go Power IC Series 3000-Watt Power Inverter Charger (GP-IC3000-12) User Manual

INTRODUCTION

The Go Power IC Series 3000-Watt Power Inverter Charger is a versatile 3-in-1 unit designed for efficient power management in RVs, boats, and off-grid systems. It integrates a pure sine wave inverter, a 150A battery charger, and a 100A automatic transfer switch into a single compact design. This manual provides essential information for the safe and proper installation, operation, and maintenance of your GP-IC3000-12 unit.

Key Features:

- **3000-Watt Pure Sine Wave Inverter:** Delivers continuous 3000W power with a 6000W surge capacity (1 second), suitable for sensitive electronics and various appliances.
- **150A Battery Charger:** Efficiently charges your battery bank from an AC source.
- **100A Automatic Transfer Switch:** Seamlessly switches between shore power/generator and inverter power, ensuring uninterrupted power supply.
- **Compact Design:** Space-saving unit for easy integration into various setups.
- **Built-In Safety Features:** Includes multiple protection features for reliable operation and system safeguarding.
- **Versatile Compatibility:** Works with both 30A and 50A services and handles up to 100A shore power.

SETUP

Proper installation is crucial for the safe and efficient operation of your Go Power IC Series Inverter Charger. It is highly recommended that installation be performed by a qualified professional electrician to ensure compliance with all local and national electrical codes.

Installation Overview:

1. **Mounting:** Securely mount the inverter charger in a well-ventilated area, away from flammable materials and direct sunlight. Ensure adequate clearance for air circulation around the unit.
2. **DC Battery Connections:** Connect the DC battery cables to the inverter's positive (POS +) and negative (NEG -) terminals. Ensure correct polarity and tight connections. An external 300A continuous switch and a 400A fuse should be installed as close to the battery bank as possible for safety.
3. **AC Input Connections:** Connect the AC input (from shore power or generator) to the designated AC INPUT

terminals on the inverter.

4. **AC Output Connections:** Connect the AC output (to your electrical panel or loads) to the designated INV. AC OUTPUT terminals.
5. **Grounding:** Ensure the inverter charger is properly grounded according to electrical codes.
6. **Neutral Isolation:** For installations in trailers or RVs that use an isolated or insulated neutral, the bonding screw located inside the AC wiring panel of the inverter must be removed to isolate the neutral from the ground.
7. **Remote Control (Optional):** If using the optional IC Series Inverter Charger Remote, connect it to the REMOTE port.



Rear view of the Go Power IC Series 3000-Watt Power Inverter Charger. This image highlights the AC INPUT and INV. AC OUTPUT terminals, the REMOTE and BATTERY TEMP ports, and the ON/OFF, INV./CHR. MODE, and STATUS indicators. The positive (POS +) and negative (NEG -) battery terminals are also visible.

OPERATING

Once the Go Power IC Series Inverter Charger is properly installed, follow these steps for basic operation:

1. **Activate Battery Bank:** Ensure your battery bank is connected and the main battery disconnect switch (if installed) is in the ON position.
2. **Power On Inverter:** If using the optional remote, press the 'INVERTER ON/OFF' button to activate the inverter. The remote display will show "Go Power! Initializing..." followed by the DC status (voltage and current draw).
3. **Monitor Status:** Regularly check the remote display or the unit's status indicators for operational information, including DC voltage, inverter current, and charging status.
4. **Charging:** When connected to an AC source (shore power or generator), the unit will automatically begin charging the batteries and pass through AC power to your loads.
5. **Power Off:** To turn off the inverter, press the 'INVERTER ON/OFF' button on the remote or use the main power switch on the unit. Always disconnect AC input before performing maintenance or extended storage.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Go Power IC Series Inverter

Charger. Always disconnect all power sources (DC batteries and AC input) before performing any maintenance.

- **Inspect Connections:** Periodically check all DC and AC wiring 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, dirt, and obstructions. Use compressed air or a soft brush to clean them.
- **Battery Maintenance:** Follow the maintenance guidelines for your specific battery type (e.g., checking water levels for flooded lead-acid batteries).
- **Environmental Check:** Ensure the installation environment remains dry, well-ventilated, and within the specified operating temperature range.

TROUBLESHOOTING

If you encounter issues with your Go Power IC Series Inverter Charger, refer to the following common troubleshooting steps. For complex problems, contact customer support.

- **No Power Output:**
 - Check if the inverter is turned ON via the unit's switch or remote.
 - Verify battery connections are secure and not corroded.
 - Check the main battery fuse and any circuit breakers for trips.
 - Ensure batteries are adequately charged.
- **Low Voltage Alarm:**
 - Indicates low battery voltage. Recharge batteries immediately.
 - Reduce load on the inverter.
- **Overload Shut-off:**
 - The inverter has detected too much load. Disconnect some appliances.
 - Restart the inverter after reducing the load.
- **No AC Charging:**
 - Verify AC input (shore power/generator) is active and connected.
 - Check AC input circuit breakers.

SPECIFICATIONS

Feature	Specification
Brand	Go Power
Model Name	GP-IC3000-12
Recommended Uses For Product	Vehicle
Power Source	Battery Powered
Wattage (Continuous)	3000 watts
Peak Output Power Watts	6000 watts

Feature	Specification
Input Voltage	12 Volts (DC)
Output Voltage	115 Volts (AC)
Electrical Output Waveform	Pure Sine Wave
Number of Outlets	1
Standby Power Shutoff	90
Item Dimensions L x W x H	13.7"L x 12.6"W x 8.07"H
Item Weight	1 Pounds
Energy Specifications Met	UL 458 with marine supplement
Built-In Media	Inverter charger only (remote sold separately)
Color	Black
UPC	839085007914
Manufacturer	GO POWER

WARRANTY AND SUPPORT

The Go Power IC Series 3000-Watt Power Inverter Charger comes with a **3-year warranty** from authorized resellers (CTC123, Amazon).

For technical assistance, troubleshooting, or warranty claims, please contact Go Power customer support. Refer to the official Go Power website or your purchase documentation for the most current contact information.