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› Go Power GP-LIFEPO4-250 12V 250A Hour Lithium Battery User Manual

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Model: GP-LIFEPO4-250 | Brand: Go Power

INTRODUCTION

The Go Power! GP-LIFEPO4-250 12V 250Ah Lithium Iron Phosphate Solar Battery is engineered for robust performance in mobile applications, making it an ideal power solution for RVs and similar setups. This deep cycle battery offers enhanced power capacity and quick charging capabilities, designed to provide reliable energy for extended periods off-grid.

PRODUCT OVERVIEW



An angled view of the Go Power! GP-LiFePO4-250 12V 250Ah Lithium Battery, showcasing its black casing, positive and negative terminals, and product labels. The labels indicate the model number, maximum voltage, battery chemistry (Lithium Iron Phosphate, LiFePO4), and contact information for support.

Key Features

- **Compatibility:** Fully compatible with all Go Power! solar systems, inverters, and charge controllers.
- **Max Power Capacity:** Delivers nearly double the power capacity compared to traditional batteries.
- **Quick Charging:** Designed for efficient and rapid recharging.
- **Integrated Battery Management System (BMS):** Features comprehensive protection including over and under voltage, over and under temperature, charge and discharge overcurrent, and short circuit protection.

WHAT'S IN THE BOX

- 1 x Go Power! GP-LiFePO4-250 12V 250Ah Lithium Battery

SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your Go Power! lithium battery. Always ensure all connections are secure and correctly polarized. Consult a qualified professional if you are unsure about any installation steps.

1. **Safety First:** Before beginning installation, disconnect all power sources. Wear appropriate personal protective equipment, including safety glasses and insulated gloves.
2. **Mounting:** Securely mount the battery in a well-ventilated area, away from direct heat sources or flammable materials. Ensure the battery is stable and cannot shift during vehicle movement.

3. **Wiring:** Connect the positive (+) terminal of the battery to the positive (+) terminal of your system, and the negative (-) terminal of the battery to the negative (-) terminal of your system. Use appropriately sized cables and fuses as recommended by your system's specifications.
4. **Charge Controller/Inverter Connection:** If connecting to a solar charge controller or inverter, follow the manufacturer's instructions for those devices to ensure proper integration with a lithium battery. The built-in BMS provides protection, but external system compatibility is important.
5. **Final Check:** Double-check all connections for tightness and correct polarity before re-applying power.

Note: This battery is designed for 12V systems. Do not attempt to connect in series to achieve higher voltages unless explicitly stated by Go Power! for specific configurations.

OPERATING INSTRUCTIONS

The Go Power! lithium battery is designed for ease of use with its integrated Battery Management System (BMS) handling most operational parameters. However, understanding basic operation ensures optimal performance and longevity.

- **Charging:** Use a compatible lithium battery charger or solar charge controller. The battery supports quick charging. The BMS will manage overcharge protection. Maximum charging voltage is 14.8V.
- **Discharging:** The battery is a deep cycle battery, meaning it can be discharged significantly without damage. The BMS will protect against over-discharge.
- **Temperature Range:** Operate the battery within its specified temperature range for optimal performance. The BMS includes over and under temperature protection.
- **Storage:** For long-term storage, ensure the battery is charged to approximately 50% of its capacity and stored in a cool, dry place.

MAINTENANCE

The Go Power! GP-LIFEPO4-250 Lithium Battery is designed to be **maintenance-free**. Its advanced Lithium Iron Phosphate chemistry and integrated Battery Management System (BMS) eliminate the need for regular watering or equalization charges common with lead-acid batteries.

To ensure continued optimal performance and longevity:

- **Keep Terminals Clean:** Periodically inspect battery terminals for any corrosion or loose connections. Clean with a dry cloth if necessary.
- **Environmental Conditions:** Ensure the battery is kept within its recommended operating temperature range and in a dry environment.
- **Physical Inspection:** Regularly check the battery casing for any signs of damage or swelling. If any damage is observed, discontinue use and contact Go Power! support.

TROUBLESHOOTING

This section provides general guidance for common issues. The integrated BMS handles many internal protections. If problems persist, contact Go Power! support.

Problem	Possible Cause	Solution
Battery not charging	Loose connections, charger malfunction, BMS protection engaged (e.g., over-discharge, low temperature)	Check all cable connections. Verify charger operation. Allow battery to warm up if in cold conditions. If BMS is engaged, it may require a specific reset procedure or a compatible charger to re-activate.

Problem	Possible Cause	Solution
No power output from battery	BMS protection engaged (e.g., over-discharge, short circuit, overcurrent), loose connections	Check all cable connections. Disconnect load to see if BMS resets. Ensure load is within battery's specifications.
Battery appears swollen or damaged	Internal cell failure, severe overcharging/overheating (unlikely with BMS)	Immediately discontinue use. Do not attempt to charge or discharge. Contact Go Power! support for assistance. This is a serious safety concern.

SPECIFICATIONS

Attribute	Detail
Model	GP-LIFEPO4-250
Item Model Number	82740
Battery Type	Lithium Iron Phosphate (LiFePO4)
Voltage	12 Volts
Amperage / Capacity	250 Amp Hours (Ah)
Max Voltage	14.8V
Item Weight	79.4 pounds
Product Dimensions (L x W x H)	20.5 x 9.5 x 8.8 inches
Special Features	Built-in Battery Management System (BMS)
Maintenance	Maintenance Free

WARRANTY INFORMATION

Go Power! products are manufactured to high quality standards. Specific warranty terms and conditions for the GP-LIFEPO4-250 battery are typically provided at the time of purchase or can be found on the official Go Power! website. Please retain your proof of purchase for any warranty claims.

The warranty generally covers defects in materials and workmanship under normal use. It typically does not cover damage resulting from improper installation, misuse, abuse, neglect, accident, or unauthorized modification.

CUSTOMER SUPPORT

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

Phone: [1-866-247-6527](tel:1-866-247-6527)

When contacting support, please have your product model number (GP-LIFEPO4-250) and purchase information readily available.

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