

GP-LiFePO4-100 : Lithium Sun Cycle Battery by Go Power!



Price: CAD \$939.00

SKU: GP-LIFEPO4-100

Product Categories: [Batteries](#), [Lithium](#), [Multi-Use : 12V, >100Ah](#), [Shop](#)

Product Tags: [battery](#), [deep cycle](#), [gc2](#), [gp-lifepo4-100](#), [gp-lifepo4-100 canada](#), [Group 27](#), [group 31](#), [lfp](#), [lfp battery](#), [lithium](#), [lithium iron phosphate](#), [lithium rv battery](#), [lithium solar battery](#), [solar battery](#)

Product Page:

<https://www.modernoutpost.com/product/gp-lifepo4-100-lithium-sun-cycle-battery-by-go-power/>

Product Summary

The GP-LiFePO4-100 : Lithium Sun Cycle Battery by Go Power! An affordable lithium deep cycle battery as an alternative to AGM and lead-acid. Ideal for solar systems, RVs, vans, and portable systems. This is an efficient, high-powered performance battery designed with solar recharging in mind. 100Ah and native 12V operation makes it easy to get into lithium.

Product Description

The GP-LiFePO4-100 : Lithium Sun Cycle Battery by Go Power! An affordable lithium deep cycle battery as an alternative to AGM and lead-acid. Ideal for solar systems, RVs, vans, and portable systems. This is an efficient, high-powered performance battery designed with solar recharging in mind. 100Ah and native 12V operation makes it easy to get into lithium.

MODEL: GP-LIFEPO4-100

Go further off-the-grid with the new Go Power! 100ah Lithium Iron Phosphate solar battery. Built specifically for mobile applications, this deep cycle battery is ideal for use in an RV. This 100-amp hour battery is a drop-in replacement for Class 31 Lead-Acid.

GP-LIFEPO4-100 Product Overview - Compatible with most solar, inverters and charge controllers - Max Power Capacity; carries almost double the power of regular batteries - Lightweight - Quick charging

Built-in Battery Management System (BMS)

- Over and under voltage protection - Over and under temperature protection - Charge and discharge over current protection - Short circuit protection - Drop-in replacement for Group 31 Lead Acid or AGM batteries - Compare 3,000 @ 80% DoD to AGM VRLA batteries with 1100 cycles @ 50% DoD! - 10-year warranty
- Safety Features

Go Power! Lithium batteries feature a built-in Battery Management System (or, BMS) which ensures safety and long battery life by constantly monitoring battery performance, internal temperature, and other critical elements required in safely functioning battery. Go Power! LiFePO4 Lithium batteries feature several safety components in the BMS, which include:

- Over and under voltage protection, which disconnects the battery from the load or charger, to prevent damage if it occurs - Over and under temperature protection, which also disconnects from the load if the temperature limits are exceeded - Charge and discharge over current protection, which automatically

balances the voltages during recharge cycles to bring all the battery cells to full charge at the same time, ensuring longer battery life. - Short circuit protection, which open circuits the battery terminals if a short is detected

Safety Precautions ⚠ Do not wire in series.

⚠ Maximum 4 batteries per bank in parallel.

⚠ Only suitable for 12-volt applications.

⚠ Do not get wet.

⚠ Lithium Iron Phosphate batteries ship under Class 9 Dangerous Goods PI 965 Section IA, which requires special carrier instructions. Please contact your carrier company to determine their requirements for shipping.

GP-LiFePO4-100 Specifications...

Technology : Lithium Iron Phosphate (LiFePO4 or LFP)

Nominal Voltage : 12.8 V

Nominal Capacity : 100 Ah

Nominal Operating Temperature : 77 ±5 °F (25 ±3 °C)

Maximum Charge Voltage : 14.6 VAC

Maximum Discharge Current : 100A (continuous); 120A (30 minutes); 150A (5 seconds)

* Need a higher discharge current for your inverter? Put multiple batteries in parallel. For example, two batteries in parallel will be able to deliver 200A of continuous current, which is suitable for a 2,000W inverter.

Over-charge Protection Voltage : 14.6V

Over-charge Protection Voltage of a single cell : 2.1V

Maximum Temperature Protect Charge : 32°F (0°C) to 131°F (55°C)

Maximum Discharge Temperature Range : -4°F (-20°C) to 131°F (55°C)

Dimensions (L/W/H) : 328 x 178 x 233.7mm (12.9 x 7 x 9.2 Inches)

Weight : 16.33 kg (36 lbs)

BMS Leakage Current : ≤3mA

Certifications : UN 38.3; CE

Cycle Life : 80% Depth of Discharge ~ 3000 cycles

Warranty : 10-year (Prorated)

[Download the full spec sheet](#) [Download the Quick Start Guide](#)] **FAQ About Lithium Batteries... Can these be used as starting batteries?**

No, they are not suited to be used in this application.

Can these charge from an alternator?

Be sure to use a suitable 12V DC-DC isolated voltage converter when incorporating lithium batteries as 'house' batteries in an RV or boat. Many alternators cannot handle lithium directly, and the voltage converter will ensure full & proper charging. The Victron Orion 12/12-30 is an excellent choice.

Are there any wiring restrictions?

Yes. You can not wire more than 4 of these batteries in parallel. These batteries cannot be wired in series.

What does LiFePO4 stand for?

LiFePO4 stands for Lithium Iron Phosphate, this is the common chemistry of '12 volt' lithium batteries

What is the recommended Depth of Discharge for these batteries?

To increase the longevity of the battery, we recommend to discharge no lower than 20-30% SOC regularly.

Is a battery kill switch for winter storage?

No, there is no need to add a kill switch.

Do lithium batteries need to be taken out for the winter or can they be left in the trailer/RV? (Will they freeze?)

It is recommended to take the lithium batteries out like any deep cycle battery. Lithium batteries do not like cold temperatures. They will not take a charge below 0 degrees and like any battery they can freeze at one point.

Do lithium batteries go dead from sitting while stored?

Lithium batteries will discharge over time like any battery but they do it at a much slower rate. We recommend giving them a quick charge every couple of months and to keep them in peak condition.

How do you charge a lithium battery in cold or warm weather?

It is better to charge lithium batteries in warmer temperatures. Lithium batteries will not accept charge at freezing or below. The charging temperature range on our batteries is 32°F (0°C) - 131°F (55°C)

What settings are used on the inverter/charger for the lithium batteries?

Use the custom battery charger setting on the Inverter/Charger units. See the instructions below for more info.

IC Series...

Go Power Lithium Battery Set Up: Go to Unit Setting and hit enter;

Scroll to Final Charge and hit enter;

Scroll to set to Float and hit enter;

Scroll through unit setting to battery type and hit enter;

Scroll to Custom and hit enter;

Set absorption to 14.3VDC and hit enter;

Set Float to 14.1VDC and hit enter;

Set equalize to 14.1VDC and hit enter;

You are now set for charging Go Power 12 volt lithium batteries.

Product Attributes

- Dimensions: 33 × 18 × 24 cm
- Weight: 17 kg