

**Go Power!**<sup>®</sup>

# 100AH 12V LITHIUM BATTERY



EFFICIENT HIGH-PERFORMANCE SOLAR POWER STORAGE



Model #: GP-LiFePO4-100

## Features:

- Can be used with lithium compatible Go Power! solar, inverters and charge controllers
- Max Power Capacity; carries almost double the power of regular batteries
- Lightweight
- ETL Certified
- Quick charging
- Internal Battery Management System (BMS) protects against:
  - Over and under voltage
  - Over and under temperature
  - Charge and discharge over current
  - Short circuit
- Drop-in replacement for Group 31 Lead Acid or AGM batteries
- **10-year warranty**

**Only suitable for 12-volt applications.**

**DO NOT WIRE IN SERIES.**

## SPECIFICATIONS

Technology	Lithium Iron Phosphate
Nominal Voltage	12.8 V
Rated Capacity <sup>1</sup>	100Ah
Nominal Operating Temperature	77 ±5 °F (25 ±3 °C)
Maximum Charge Voltage	14.6 VAC
Charge Cut-off Voltage	14.6 VAC
Discharge Cut-off Voltage	8.4 VAC
Recommended Charge Current	50A
Maximum Charge Current	100A
Maximum Discharge Current	100A (continuous); 120A (30 minutes); 150A (5 seconds)
Over-charge Protection Voltage	14.6V
Internal Resistance	≤ 7.5 mΩ
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)
BMS Leakage Current	≤3mA
Operating Temperature	Charge: 32°F (0°C) to 131°F (55°C) Discharge: -4°F (-20°C) to 131°F (55°C)
Storage Temperature	1 Week: -4°F (-20°C) to 122°F (50°C) 1 month: -4°F (-20°C) to 113°F (45°C) 6 months <sup>2</sup> : -4°F (-20°C) to 104°F (40°C)
Humidity	Operating: 5% to 90 % RH Storage: 45% to 85% RH
Certifications	UN 38.3; CE: ETL
Cycle Life <sup>3</sup>	≤1500 @ 100% Depth of Discharge; ≥3000 @ 80%; ≥4500 @ 30%
Product Warranty	10-year (Prorated)

<sup>1</sup> Rated Capacity tested at 77°F (25 ±5 °C)

<sup>2</sup> Maximum storage time before recharging is 6 months

<sup>3</sup> Cycle Life tested at 77°F (25°C)



# 100AH 12V LITHIUM BATTERY

MECHANICAL	
Length	12.9 in / 328 mm
Width	6.5 in / 165 mm
Height	9.2 in / 233.7 mm
BCI Group #	31
Weight	36 lbs / 16.33 kg
Terminals	M8 insert Torque: 11-14.7 Nm (97.3 - 130 lbs)
Carrying	Nylon Strap

MATERIALS	
Case and Cover	ABS
Active	LiFePO4
Venting Valve	Rubber, opening pressure 8-20kPa

## Unit Dimensions



## PLEASE NOTE

Lithium 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.

MSDS Sheets are available upon request.