



LiFePO₄ Battery Pack

GP-LFP-24100

25.6V 100AH

Battery Pack Specification

1. Overview

GP-LFP-24100 is 25.6V100Ah Lithium iron phosphate battery module which designed for UPS, solar system, portable devices, energy storage and medical cart applications. This battery module integrated with intelligent BMS inside, has big advantages on safety, cycle life, energy density, temperature range and environmental protection. This product specification describes the type, size, structure, electrochemistry performance, service life, and BMS characteristics. This specification only applies to the battery module supplied by GoPower.

2. Advantages

The battery module consists of single LFP cells, wire, BMS and container.

- Packed with high performance LFP single cell, long life, safety and wide temperature range ;
- High energy density, small size, light weight, no pollution ;
- High efficiency, fast charging ;
- Built-in BMS, protect voltage, current, temperature in whole process ;
- Standard VRLA battery case, can replace the VRLA battery directly ;
- Various single cell types, customize dimension and capacity easily ;
- 15 years design life, Stable performance, maintenance-free.

Parameters

Model/Parameters	GP-LFP-24100
Rated Voltage	25.6V
Rated Capacity (0.2C @25°C)	100Ah
Rated Energy	2560Wh
Cell & Pack	LiFePO4, Prismatic, Aluminum shell
Output voltage range	20.0V~29.2V
Charging voltage	29.2V, CC-CV
Cut-off voltage	20.0V
Max. Constant Charging current	100A
Recommended charging current	<50A, best @ 20A
Recommended charging type	CC-CV until current <0.02C
Max.Constant Discharging current	≤100A
Efficiency	≥98%
Built-in BMS	
Over-charge protection	Module>29.6V or Cell>3.8V
Over-discharge protection	Module<20.0V or cell<2.0V
Over-current protection Short circuit protection	Charging: >105A,delay 15S; >120A delay 2S; Discharging: >105A,delay 15S; >210A delay 1S; Short circuit: >400A
Cell balance	Passive, 150mA
Over temperature protection	Charging: <-5°C or >65°C Discharging: <-20°C or >65°C
Case material	ABS
Dimension L*W*H (mm) & Terminal	482*170*240, M8
Weight(kg)	24.0±0.5
Environment	
Humidity	5%~95% relative humidity
Charging temperature	0°C~+45°C
Discharging temperature	-20°C~+65°C
Storage temperature	-20°C~45°C
Service Life	
Design life	>15 years
Cycle life	90%DOD>4000 times @0.2C 25°C