

# LFP12-100 (LiFePO<sub>4</sub> 12.8V100AH Battery)

## General Information

LFP series is a LiFePO<sub>4</sub>(lithium iron phosphate)battery pack for backup power application. The battery pack adopts the advanced LiFePO battery technology with the advantages of long cycle life, small size, lightweight, safety and environmental protection, and also has a strong environmental adaptability.

## Application

- Suitable for Lawn and Garden Tools
- Parking Lot
- Garage
- Warehouse Automatic Door Power Supply
- Home Use Car
- Marine Backup Power Supply
- Photovoltaic 12V, 24V, 48V Off-grid Applications
- Telecom Base Station Energy Storage
- Electric Wheelchairs
- Scooters
- Golf Cart Parking Air Conditioning Power Supply

## Key Features

### ● *Super long cycle life*

Over 6000 cycles at 80%DOD can be circularly used.

### ● *Fast charge capability*

Very fast charging capability up to 100A

### ● *Low self discharge*

<1% per month at 25°C

### ● *Long Life*

10 years design life at 25°C,

### ● *High safety & stable performance*

No explosion and no fire under collision. No risk of leakage

### ● *Intelligent Integrated Battery Manage System(BMS)*

Built-in BMS automatically protects internal cells from over-charge, over-discharge, over-temperature, short-circuit, etc. Ensure battery safety and reliability. Equalize and balance each cell. Prolong battery life. SOC-DOD-SOH reporting/ setting device events, battery parameters, and storage, intelligent monitor, remote measure, remote communication, remote control.

### ● *LED display is available*

LED display can show voltage, temperature, etc information.

### ● *In compliance with standard*

UN/NOT 38.3, CE, IEC.



## Specification

Weight	10.8kg
Dimensions	330*170*215mm
Nominal voltage	12.8V
Nominal capacity	100Ah
Nominal energy	1.28kWh(4S1P)
Service life	≥6000 cycles @80%DOD 25°C
Self-discharge	<1%/M
Charging	100A Max(Recommend 50A)
Discharging	100A Max(Recommend 50A)
Charging voltage	14.4V±0.2V
Charging mode	Step 1: 0.5C charge to 14.4V; Step 2: CV(constant voltage 14.4V) charge till charge current decline to 0.05C
Peak discharge current	100A
DOD discharge rate	100%
Charging operating temperature	0~45°C
Discharging operating temperature	-20~55°C
Storage temperature and humidity range	1 month:-20~45°C;3 months:-10~45°C; 6 months: 0~25°C; Humidity:45%-90% RH The battery should cycle once in three months. Recommended storage temperature is 25±5°C of SOC 50%-60%.
Degree of protection	IP65

## Dimension

