

LFP48-100(LiFePO₄ 48V100AH Battery)

General Information

LFP series is a LiFePO₄(lithium iron phosphate)battery packfor backup power application. The battery pack adopts the ad-vanced LiFePO battery technology with the advantages of longcycle life, small size, lightweight, safety and environmental pro.tection, 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 batterysafety and reliability.Equalize and balance each cell. Prolong bat-tery life.SOC-DOD-SOH reporting/ setting device events, batteryparameters, 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	36.6kg
Dimensions	520*269*220mm
Nominal voltage	48V
Nominal capacity	100Ah
Nominal energy	4.8kWh(15S1P)
Service life	≥6000 cycles @80%DOD 25°C
Self-discharge	<1%/M
Charging	100A Max(Recommend 50A)
Discharging	100A Max(Recommend 50A)
Charging voltage	54V±0.2V
Charging mode	Step 1: 0.5C charge to 54V; Step 2: CV(constant voltage 54V) 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 is25±5°C of SOC 50%~60%.
Degree of protection	IP65

Dimension

