

LiFeP04 BATTERY SYSTEM

MP Series 4850/48100



Product Description

MP series is designed for residential and commercial Energy Storage applications, with LiFePo4 chemistry battery which has been widely recognized as one of the safest battery technologies.

Product Advantages

- 3000 times deep cycle charge and discharge .
- Iron phosphate-lithium power battery .
- Higher energy density, smaller volumn for household.
- Support connected in parallel mode for expansion.
- Photovoltaic system: This battery pack is designed for household photovoltaic systems.
- Battery management system (BMS): The battery packs built-in BMS monitors its operation and prevents the battery from operating outside design limitations.

PRODUCT PARAMETERS

Model	MP4850	MP48100
Capacity	50AH	100AH
Voltage	48V	48V
Rated Voltage	51.2V	51.2V
Charge Voltage	57.6V	57.6V
Discharge Voltage Range	48-57.6V	48-57.6V
MAX. Charge & Discharge Current	120A	
DOD	0.9	
Modules Connection	1~6 in parallel	
Communication	CAN & RS485	
Ingress Protection	IP21	
Cycle Life	>3000,@25°C	
Working Temperature Range	■10-50°C	
Net weight(kg)	20KG	43KG
Gross weight(kg)	22KG	47KG
Dimension(MM)	482*405*132mm	482*405*132mm

Routine

Item	Standard	Testing Method
Standard charging	Constant current-constant voltage	At 25°C±5°C, first charge with 5A constant current to 54.75V, and then charge at constant voltage 54.75V to current ≤1A.
Cycle life	Capacity≥40Ah	After standard charging, put it to 37.5V at 10A, the capacity after 1500 cycles of charge and discharge.
Charge retention capability	Remaining capacity≥48Ah	After standard charging, store at 25°C±2°C for 30 days, and test the capacity of 10A discharge to 37.5V.
	Remaining capacity≥50Ah	After standard charging, store at 45°C±2°C for 30 days, and test the capacity of 10A discharge to 37.5V.
High and low temperature test	Discharge capacity at -20°C ≥25Ah Discharge capacity at 0°C ≥40Ah Discharge capacity at 50°C ≥50Ah	After standard charging, discharge 10A to a capacity of 30V at the specified temperature.