## LFP48100W(51.2V100AH)

Document:Lithium Battery datasheetDoc. Version:V4.0Issue Date:1-1-2024

#### **Overview**

SunSaviour Lithium iron phosphate battery module which designed for storage and power supply system application.

This battery module integrated with intelligent BMS with 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.

The specification will be updated based on different customer requirement.

#### Advantages

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

- Packed with high performance LFP single cell, long life, safety and wide temperature range
- High energy density, small size, light weight, no pollution;
- Packing with single cell container, fire retardant wire and copper connecting bar, stable and safe.
- Built-in BMS, with battery voltage, current, temperature and health management.
- LCD(optional) indicate the battery SOC and operating status.
- Support Max 16pcs in parallel.
- > Flexible customization of dimensions
- More than 15 years design life, Stable performance, maintenance-free

### &Customization Functions



SunSaviour Reminder:

Note 1: Please always refer to the latest edition of our technical datasheet that published on our website to ensure safe and efficient operation.

#### **Battery Images**



# LFP48100W(51.2V100AH)

Document: Doc. Version: V4.0 Issue Date: <u>1-1-2024</u>

# Lithium Battery datasheet

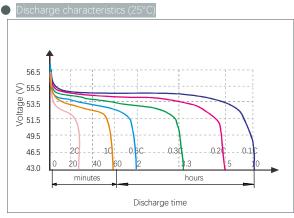
## **Battery specification**

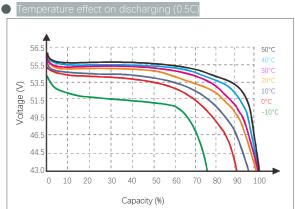
ELECTRICAL SPECIFICATIONS		BMS SPECIFICATIONS			
Cell Type - Chemistry	LiFePo4	Version	Softversion		
Nominal Voltage	51.2V	Code	PBMS16S100A		
Amp Hour Capacity	100AH	Primary Charge Current Alarm	115±5A	1S±0.2S	
Dimensions	445*162*579mm	Second Charge Current Protection	120±5A	0.5S±0.2S	
Weight	45±0.2kgs	Third Charge Current Protection	Turn to 20A auton	Turn to 20A automatic	
Terminal Type	Amphenol	High Voltage Alarm	56±0.2V	1S±0.2S	
Case Material	SPCC	High Voltage Protection	59±0.2V	1S±0.2S	
Case IP Rating	IP35	Reconnect Voltage	54.1±0.2V		
Series connections	Not Allowed	Primary Discharging Current Alarm	115±5A	1S±0.2S	
Parallel connections	Max 16pcs	Second Discharging Current Protection	120±5A		
Storage Temperature	(-10 to 40°C)	Third Discharging Current Protection	150±5A	0.5S±0.2S	
Resistance - Milliohms	<20	Low Voltage Alarm	44.8±0.2V		
Self Discharge per Month	< 2%	Low Voltage Protection	43.2±0.2V		
CHARGE SPECIFICATIONS		Reconnect Voltage	47.2±0.4V		
Floating Charge Voltage	≤55.2V	High Temp Protection	70±3℃		
Boost Charge Voltage	≤56.8V	Reconnect Temp	60°C		
Recommend Charge Current	≤20A	Balancing voltage	56±0.2V@30mV		
Max Charge current	≤100A	Balancing current	90±20mA		
Charge current (0 to -10°C)	<0.1C	Shortage current	355±5A		
Charge currrent (-20 to -10°C)	<0.05C	Communication port	RS485/CAN/RS232		
Charge Temperature	(0 to 45℃)	Default protocols	Pylon-V1.2 CAN/RS485		
DISCHARGE SPECIFICATIONS		Additional Functions			
Recommend Discharge current	≤100A	LCD screen(Optional)	Touchable		
Max Cont Discharge current	≤120A	Heater(Optional)	By charger		
Max Disharge Voltage	≥44.8V	GPS/ Anti-theft(Optional)	by BMS system		
Discharge Temperature	(-20 to 60°C)	SNMP(Optional)	Build-in protocols		

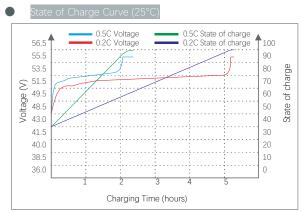
## LFP48100W(51.2V100AH)

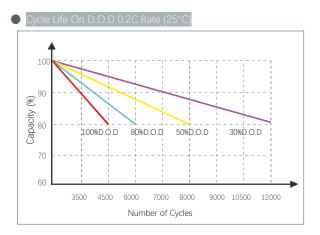
Document:Lithium Battery datasheetDoc. Version:V4.0Issue Date:1-1-2024

#### **Performance curve**











# Image: state stat

