LFP24100C(25.6V100AH)

Document: Lithium Battery datasheet

Doc. Version: V4.0 Issue 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
- Support Max 16pcs in parallel.
- Flexible customization of dimensions
- More than 15 years design life, Stable performance, maintenance-free

Battery Images



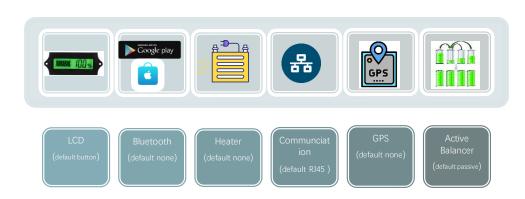








Customization Functions



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Battery specification

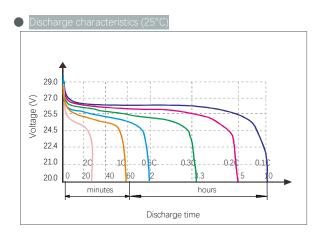
ELECTRICAL SPECIFICATIONS	I	BMS SPECIFICATIONS	1	
Cell Type - Chemistry	LiFePo4	Version	Softversion	
Nominal Voltage	25.6V	Code	PBMS8S100A	
Amp Hour Capacity	100AH	Primary Charge Current Alarm	115±5A	1S±0.2S
Dimensions	441*400*155mm	Second Charge Current Protection	120±5A	0.5S±0.2S
Weight	27±0.2kgs	Third Charge Current Protection	Turn to 20A automatic	
Terminal Type	Amphenol	High Voltage Alarm	28±0.2V	1S±0.2S
Case Material	SPCC	High Voltage Protection	29.5±0.2V	1S±0.2S
Case IP Rating	IP35	Reconnect Voltage	27.05±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	22.4±0.2V	
Self Discharge per Month	< 2%	Low Voltage Protection	21.6±0.2V	
CHARGE SPECIFICATIONS		Reconnect Voltage	23.6±0.4V	
Floating Charge Voltage	≤27.6V	High Temp Protection	70±3°C	
Boost Charge Voltage	≤28.4V	Reconnect Temp	60°C	
Recommend Charge Current	≤20A	Balancing voltage	28±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°C)	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	≥22.4V	GPS/ Anti-theft(Optional)	by BMS system	
Discharge Temperature	(-20 to 60°C)	SNMP(Optional)	Build-in protocols	

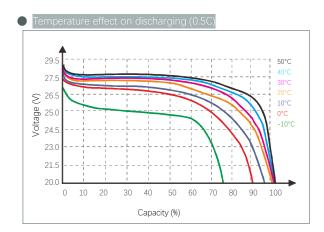
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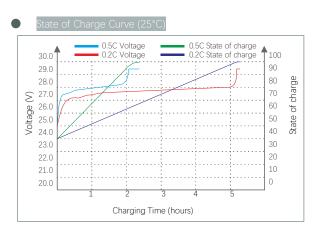
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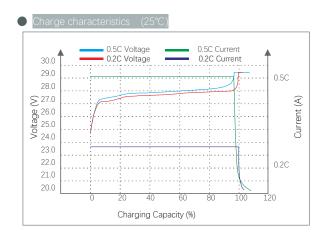
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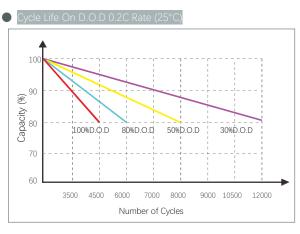
Performance curve

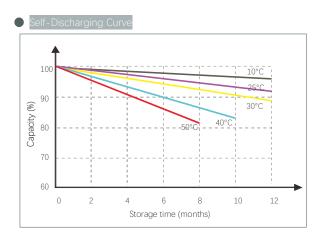












Note 2: The above curves are based on laboratory testing data @ 25°C 40%RH