

2E-LFP2485-ABC(25.6V85AH)

Document: [Lithium Battery datasheet](#)

Doc. Version: [V5.0](#)

Issue Date: [1-1-2025](#)

Overview

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 4pcs in series.
- Flexible customization of dimensions
- More than 15 years design life, Stable performance, maintenance-free

Battery Images



Safety



Multipurpose

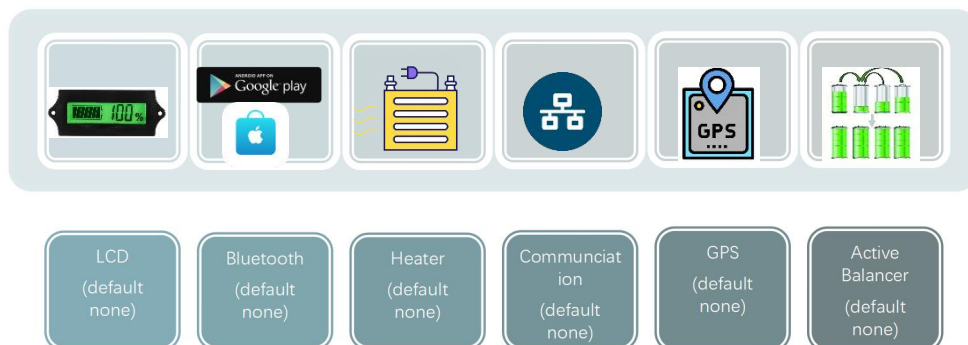


Simple Maintenance



Fast Charge/Discharge

Customization Functions



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

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Battery specification

ELECTRICAL SPECIFICATIONS

Cell Type - Chemistry	LiFePo4
Nominal Voltage	25.6V
Amp Hour Capacity	85AH
Dimensions	500*186*240mm
Weight	18.4±0.5kg
Terminal Type	M8
Case Material	ABS-Sealed
Case IP Rating	IP65
Series connections	Max to 51.2V
Parallel connections	No limited
Storage Temperature	(-10 to 40°C)
Resistance - Milliohms	< 15
Self Discharge per Month	< 2%

CHARGE SPECIFICATIONS

Floating Charge Voltage	≤27.6V
Boost Charge Voltage	≤28.8V
Recommend Charge Current	≤20A
Max Charge current	≤85A
Charge current (0 to -10°C)	<0.1C
Charge current (-20 to -10°C)	<0.05C
Charge Temperature	(0 to 45°C)

DISCHARGE SPECIFICATIONS

Recommend Discharge current	≤85A
Peak Discharge current	≤250A
Max Discharge Voltage	≥20.8V
Discharge Temperature	(-20 to 60°C)

BMS SPECIFICATIONS

Version	Softversion	
Code	J-B08S100	
Primary Charge Current Protection	120±5A	10S±3S
Second Charge Current Protection	NA	
Third Charge Current Protection	NA	
High Voltage Protection	30±0.4V	2S±1S
Reconnect Voltage	28.4V±0.4V	
Primary Discharging Current Protection	120±5A	10S±3S
Second Discharging Current Protection	500±65A	0.3S±0.2S
Third Discharging Current Protection	NA	
Low Voltage Protection	18.4±0.8V	
Reconnect Voltage	19.2±0.4V	
High Temp Protection	65±3°C	
Reconnect Temp	50°C	
Balancing voltage	26.4±0.3V	
Balancing current	40±20mA	
Shortage current	600±120A	
Communication port	RS485/CAN	

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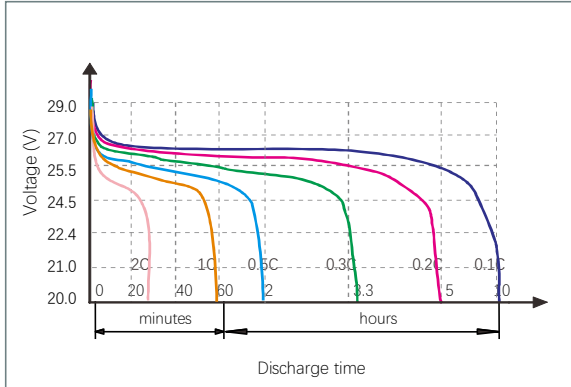
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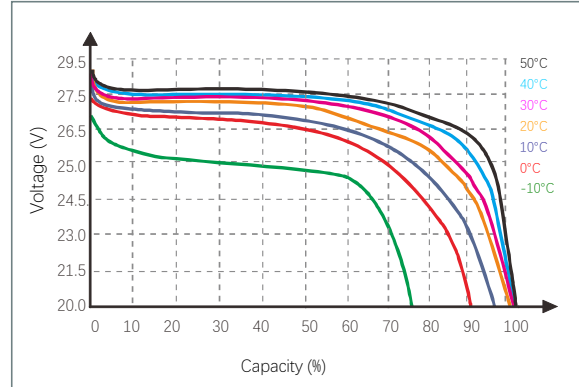
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Performance curve

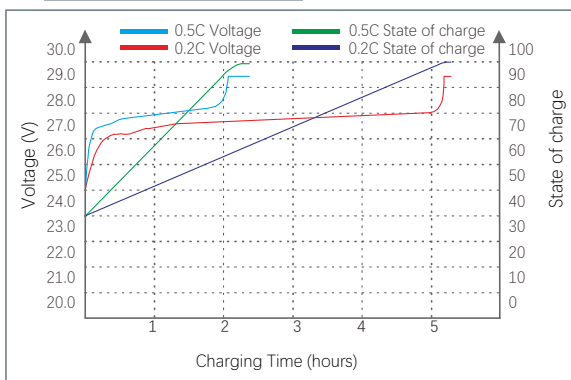
Discharge characteristics (25°C)



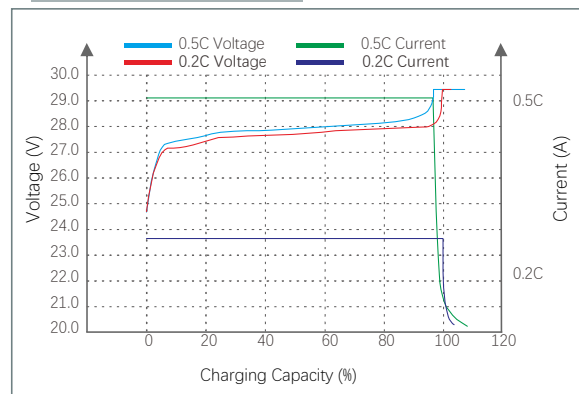
Temperature effect on discharging (0.5C)



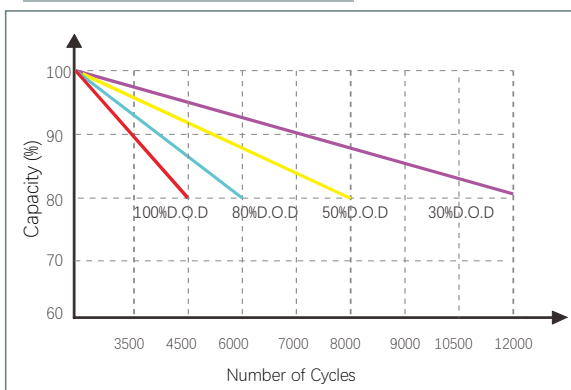
State of Charge Curve (25°C)



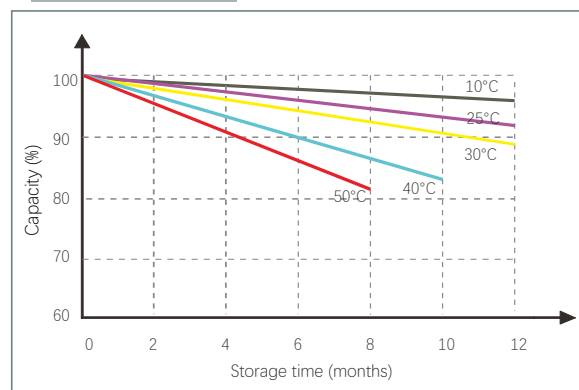
Charge characteristics (25°C)



Cycle Life On D.O.D 0.2C Rate (25°C)



Self-Discharging Curve



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

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