

LFP24120(25.6V120AH)

Document: [Lithium Battery datasheet](#)

Doc. Version: V4.0

Issue Date: 1-1-2024

Overview

Power Link 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.

Battery Images



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



Safety



Multipurpose



Simple Maintenance



Fast Charge/Discharge

Customization Functions



LCD
(default
none)

Bluetooth
(default
none)

Heater
(default
none)

Communiat
ion
(default
none)

GPS
(default
none)

Active
Balancer
(default
none)

LFP24120(25.6V120AH)

Document: [Lithium Battery datasheet](#)

Doc. Version: [V4.0](#)

Issue Date: [1-1-2024](#)

Battery specification

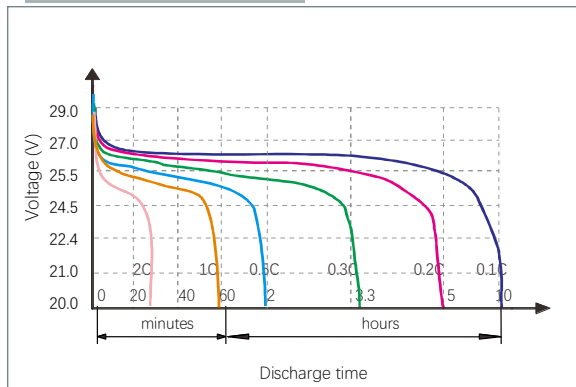
ELECTRICAL SPECIFICATIONS		BMS SPECIFICATIONS	
Cell Type - Chemistry	LiFePo4	Version	Softversion
Nominal Voltage	25.6V	Code	J-B08S120
Amp Hour Capacity	120AH	Primary Charge Current Protection	140±5A10S±3S
Dimensions	483*170*240mm	Second Charge Current Protection	NA
Weight	21.5±0.2kgs	Third Charge Current Protection	NA
Terminal Type	M8	High Voltage Protection	30±0.4V2S±1S
Case Material	ABS-Sealed	Reconnect Voltage	28.4V±0.4V
Case IP Rating	IP65	Primary Discharging Current Protection	140±5A10S±3S
Series connections	Max to 51.2V	Second Discharging Current Protection	550±100A0.3S±0.2S
Parallel connections	No limited	Third Discharging Current Protection	NA
Storage Temperature	(-10 to 40°C)	Low Voltage Protection	18.4±0.8V
Resistance - Milliohms	< 15	Reconnect Voltage	19.2±0.4V
Self Discharge per Month	< 2%	High Temp Protection	65±3°C
CHARGE SPECIFICATIONS		Reconnect Temp	50°C
Floating Charge Voltage	≤27.6V	Balancing voltage	26.4±0.3V
Boost Charge Voltage	≤28.8V	Balancing current	40±20mA
Recommend Charge Current	≤24A	Shortage current	800±150A
Max Charge current	≤120A		
Charge current (0 to -10°C)	<0.1C		
Charge currrent (-20 to -10°C)	<0.05C		
Charge Temperature	(0 to 45°C)		
DISCHARGE SPECIFICATIONS			
Recommend Discharge current	≤120A		
Peak Discharge current	≤450A		
Max Discharge Voltage	≥20.8V		
Discharge Temperature	(-20 to 60°C)		

LFP24120(25.6V120AH)

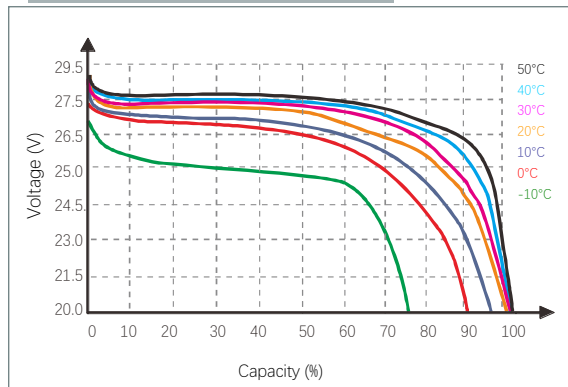
Document: Lithium Battery datasheetDoc. Version: V4.0Issue Date: 1-1-2024

Performance curve

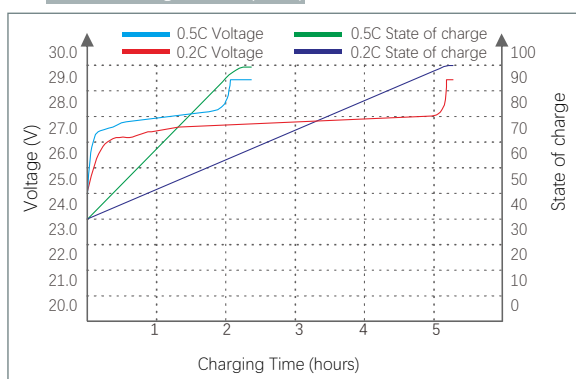
Discharge characteristics (25°C)



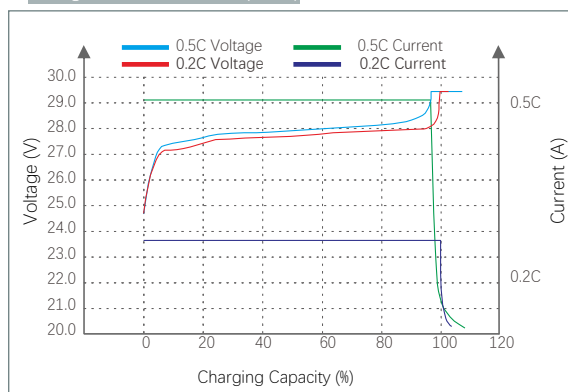
Temperature effect on discharging (0.5C)



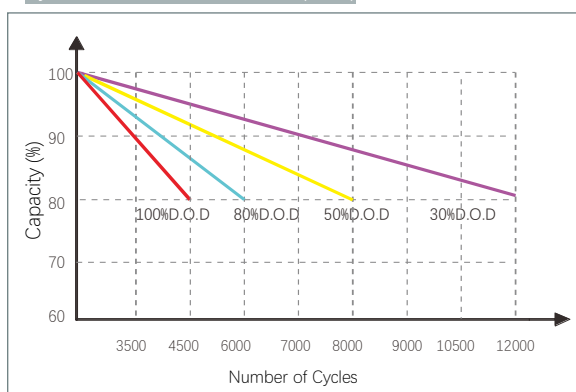
State of Charge Curve (25°C)



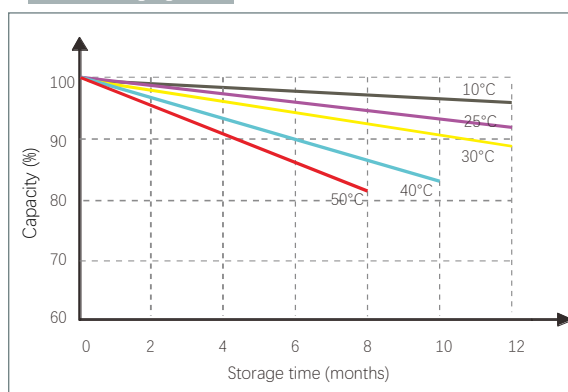
Charge characteristics (25°C)



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