

LITHIUM BATTERY

LFP12100 (12.8V100AH)

Overview

Apollo 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



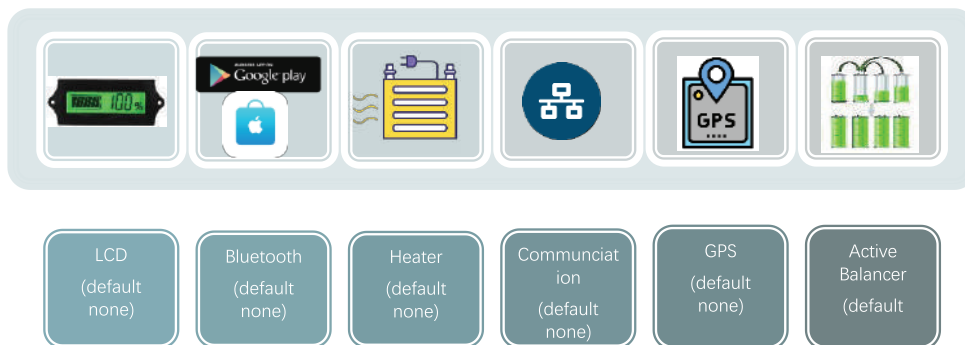
Simple Maintenance



Fast Charge/Discharge



Customization Functions



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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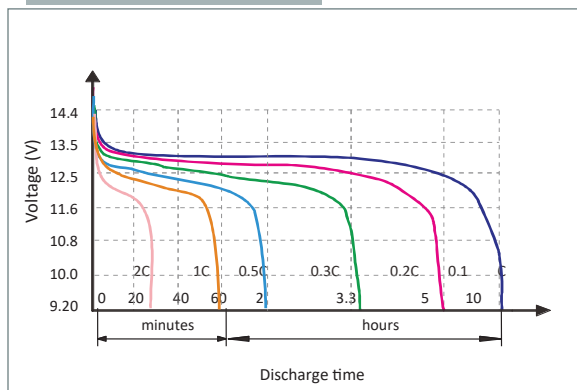
Battery specification

ELECTRICAL SPECIFICATIONS		BMS SPECIFICATIONS	
Cell Type - Chemistry	LiFePo4	Version	Softversion
Nominal Voltage	12.8V	Code	J-B04S100
Amp Hour Capacity	100AH	Primary Charge Current Protection	120±10A 10S±5S
Dimensions	330*172*215mm	Second Charge Current Protection	NA
Weight	10±0.2kgs	Third Charge Current Protection	NA
Terminal Type	M8	High Voltage Protection	15±0.2V 2S±1S
Case Material	ABS-Sealed	Reconnect Voltage	14.2V
Case IP Rating	IP65	Primary Discharging Current Protection	120±10A 10S±3S
Series connections	Max to 51.2V	Second Discharging Current Protection	330±80A 0.3S±0.2S
Parallel connections	No limited	Third Discharging Current Protection	NA
Storage Temperature	(-10 to 40°C)	Low Voltage Protection	8.8±0.4V
Resistance - Milliohms	< 15	Reconnect Voltage	10.4±0.4V
Self-Discharge per Month	< 2%	High Temp Protection	65±3°C
CHARGE SPECIFICATIONS		Reconnect Temp	50°C
Floating Charge Voltage	≤13.8V	Balancing voltage	13.2±0.2V
Boost Charge Voltage	≤14.2V	Balancing current	200±50mA
Recommend Charge Current	≤20A	Shortage current	1320±300A
Max Charge current	≤100A		
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	≤100A		
Max Cont Discharge current	≤120A		
Max Discharge Voltage	≥10.4V		
Discharge Temperature	(-20 to 60°C)		

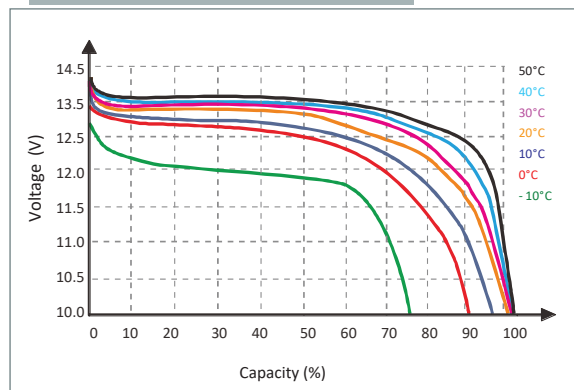
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Performance curve

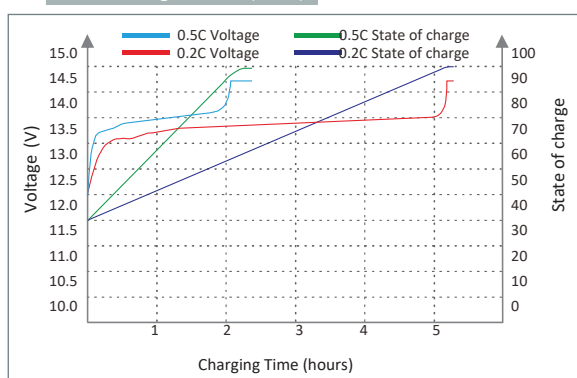
● Discharge characteristics (25°C)



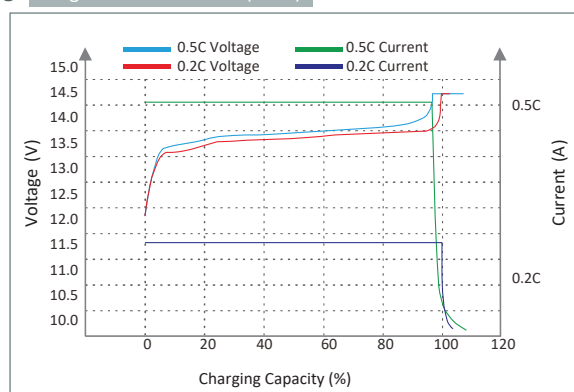
● Temperature effect on discharging (0.5C)



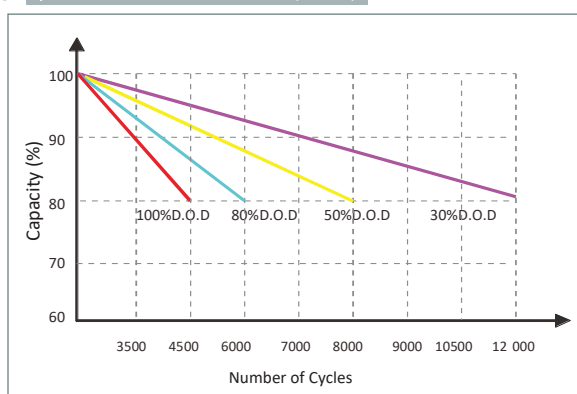
● State of Charge Curve (25°C)



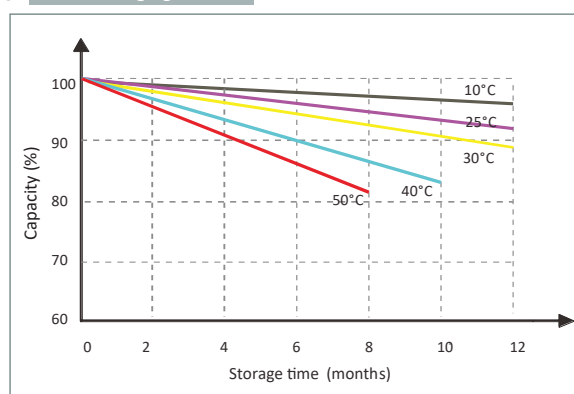
● Charge characteristics (25°C)



● Cycle Life On D.O.D 0.2C Rate (25°C)



● Self-Discharging Curve



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