LFP1250(12.8V50AH)

Document: Lithium Battery datasheet

Doc. Version: V4.0 Issue Date: 1-1-2024

Overview

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

Battery Images



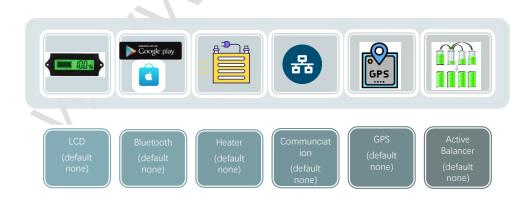








Customization Functions



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Battery specification

ELECTRICAL SPECIFICATIONS	I	BMS SPECIFICATIONS	
Cell Type - Chemistry	LiFePo4	Version	Softversion
Nominal Voltage	12.8V	Code	J-B04S50
Amp Hour Capacity	50AH	Primary Charge Current Protection	70±10A 10S±5S
Dimensions	229*138*208mm	Second Charge Current Protection	NA
Weight	5.75±0.2kgs	Third Charge Current Protection	NA
Terminal Type	M6	High Voltage Protection	15±0.2V 0.5S±0.5S
Case Material	ABS-Sealed	Reconnect Voltage	14.2V
Case IP Rating	IP65	Primary Discharging Current Protection	70±10A 10S±5S
Series connections	Max to 51.2V	Second Discharging Current Protection	210±50A 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℃
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	≤10A	Shortage current	750±150A
Max Charge current	≤50A		
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	≤50A		
Max Cont Discharge current	≤60A		

Max Disharge Voltage
Discharge Temperature

≥10.4V

(-20 to 60°C)

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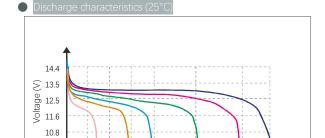
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Performance curve

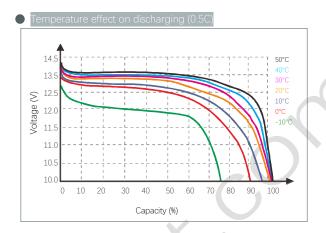
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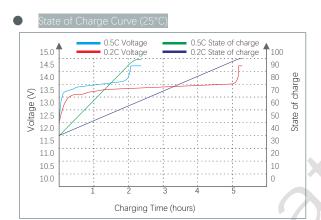
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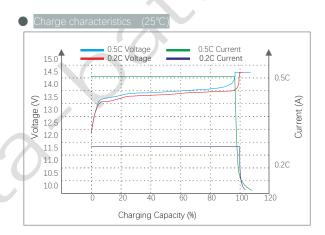
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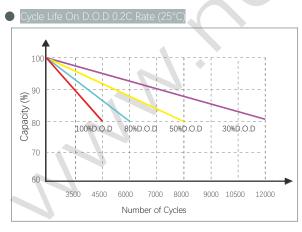


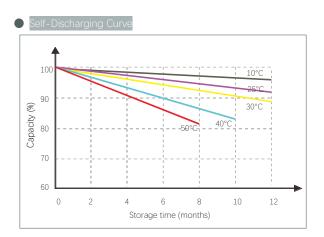
Discharge time











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



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