

PRODUCT SPECIFICATION

LITHIUM BATTERY LiFePO4

EU-LI/Rack-100Ah/25.6V V1.0









System support up to 64



With RS485/CAN

Communication Function



Led Indicator with Alarm function

Display battery information & 4 function Button BMS Real-time monitoring & BMS Parameter setting

modules in parallel

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Battery Pack Specification

1. Overview

EU-LI/Rack-100Ah/25.6V is 25.6V100Ah Lithium iron phosphate battery module which designed for energy storage power supply system application. This battery module integrated with intelligent BMS inside, has 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. This specification only applies to the battery module supplied.

2. Advantages

The battery module consists of single LFP cells, wire, BMS and 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 laser welding, stable and safe
- Built-in BMS, with battery voltage, current, temperature and health management
- LED indicate the battery SOC and operating status
- LCD Screen display the battery voltage, current, temp.,SOC detail information
- Support communicate with solar inverter bu CAN or RS485
- Update software by RS485 port
- Flexible customization of dimensions
- More than 15 years design life
- Stable performance, maintenance-free

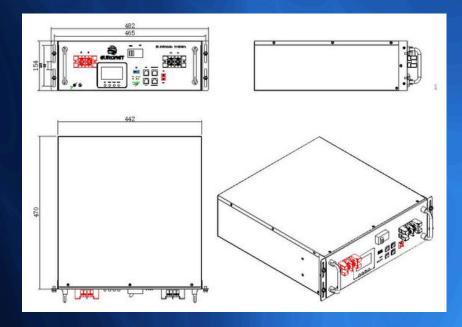
3. ProductDrawing



4. Battery module specification

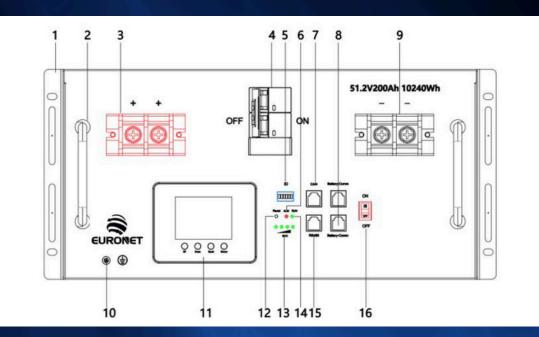
	Item	Specification	Conditions	
Nominal	Voltage	25. 6 V		
Nominai	Capacity	100Ah	25°C,0.2C	
Module weight		26.8kg	±1kg	
Dimensions(W*D*H), mm		442 *470 *154	±2mm	
Operating parameters	Charging Voltage	28.0V~28.8V		
	Discharging Voltage	22.4V		
	Charging current	Max constant charge: 100A	Recommended 50A	
	Discharging current	Max constant discharge: 100A		
	Charge range	0°C~50°C		
Temperature	Discharge range	-20 °C~5 5°C		
	Storage range	-20 °C~5 5°C		
BMS	Built-in BMS	Voltage, current, temperature management & cell balance	RS485,CAN communication	
Convice life	Design life	>15years	25°C	
Service life	Cycle life	>6000 times, 0.5C, 80%DOD		

5. View Drawing





6. Panel Description



No.	Item	Function Description	Remarks
1	Rack Mount ear	For battery rack mounting	
2	Handle	For carrying handling	
3	Terminal	Positive	M8
4	Breaker	Output switch	
5	ID	Assign address of every model	
6	ALM	Alarming indicates LED	
7	CAN	CAN Communication interface	
8	Battery-Comm	Connect inverter communication port	Parallel communication
9	Terminals	Negative	M8
10	GND	GND point	
11	LCD	LCD display	
12	RESET Emergency restart button		
13	SOC	The state of charge	4 nos green LED
14	RUN Operating indicates LED		
15	RS485	RS485 Communication interface	
16	ON/OFF Button Switch on/off the BMS		



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7. BMS specification

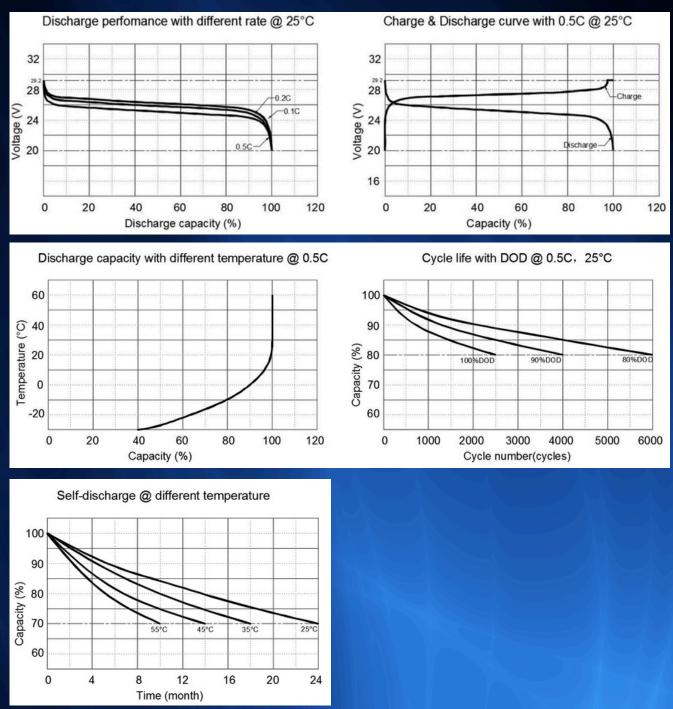
BMS provides complete management and protection for the battery.

- Voltage warning and protection for module and each single cell.
- Current warning and protection, and the maximum operating current can be customized.
- Temperature warning and protection, 4 sensors for battery pack and 1 sensor for BMS.
- Battery module SOC and SOH calculation, display the accurate battery status.
- Communicate with inverter or PC monitor, report the battery data.
- Pre-charge and pre-discharge logic, make sure safety use in whole process.
- Switch-off mode, sleep mode, and operating mode, different mode for different condition.

Item		Parameters		Condition
Charge	Cell voltage protection	3.8V	Delay 1s	Recovery at 3.45V
	Module voltage protection	30.0V	Delay 1s	Recovery at 27.6V
	Over charging current 1	>102A	Delay 20s	
	Over charging current 2	≥120A	Delay 3s	
	Temperature protection	<-5°C or >70°C	Delay 1s	Recover when >0°C or <60°C
Discharge	Cell voltage protection	2.3V	Delay 1s	Recovery at 3.1V
	Module voltage protection	22.4V	Delay 1s	Recovery at 24.0V
	Over discharging current 1	> 102A	Delay 30s	Recovery in 60s
	Over discharging current 2	> 150A	Delay 3s	Recovery in 60s
	Short circuit	>250A	< 0.1mS	
	Temperature protection	<-20°C or >75°C	Delay 1s	Recover when >-10°C or <65°C
BMS	PCB Temp protection	>105°C	Delay 1s	Recover when <80°C
	Cell balance	120mA	Passive balance	Cell voltage difference > 40mV
	Temperature accuracy	3%	Cycle measurement	Measuring range -40~100°C
	Voltage accuracy	0.5%	Cycle measurement	For cells and module
	Current accuracy	3%	Cycle measurement	Measuring range -200~+200
	SOC	5%		Integral calculation
	Power consumption with	<300uA	Switch-off mode	Storage & transportation
	different condition	<14mA	Operating mode	Charging & discharging
	Communication ports	RS485/CAN		Can be customized

BMS parameters.





8. Battery module performance Curve

Disclaimer: the preceding values are measured by an internal laboratory of Smart Euronet in a specific environment. The actual values may vary with products, software versions, usage conditions, and environmental factors.