EU-LI RACK SERIES

EURONET LITHIUM BATTERY RACK – 25.6V & 51.2V · 100Ah & 200Ah

Rack-Mount LiFePO4 Battery Modules | Built-in BMS | 4 Models



NOMINAL VOLTAGE	NOMINAL CAPACITY
25.6V / 51.2V	100Ah / 200Ah
NOMINAL ENERGY	**MAX. CHARGE/DISCHARGE**
2.56–10.24 kWh	100A / 200A
CYCLE LIFE	**PARALLEL MODULES**
>6000 @80% DoD	Up to 64

OVERVIEW

The EURONET Lithium Battery Rack series covers four rack-mounted lithium iron phosphate (LiFePO4) modules: 25.6V 100Ah (2.56 kWh), 25.6V 200Ah (5.12 kWh), 51.2V 100Ah (5.12 kWh) and 51.2V 200Ah (10.24 kWh). An intelligent built-in BMS manages voltage, current, temperature and cell balance, and talks to the solar inverter over RS485 or CAN. An LCD screen and LED indicators show voltage, current, temperature and SOC, and up to 64 modules can run in parallel. Each module is rated for more than 6000 cycles at 80% DoD with a design life of over 15 years.

KEY FEATURES

Four Rack-Mount Models
25.6V and 51.2V modules at 100Ah or 200Ah, from 2.56 kWh to 10.24 kWh per module

Intelligent Built-in BMS
Voltage, current and temperature protection, SOC and SOH calculation, plus passive cell balancing

Inverter Communication
RS485 and CAN ports for solar inverters, parallel communication port and software update by RS485

LCD Screen & LED Indicators
LCD shows voltage, current, temperature and SOC; 4 green SOC LEDs plus RUN and ALM indicators

Up to 64 Modules in Parallel
Expand storage with up to 64 modules in parallel; max. constant current 100A, or 200A on 51.2V 200Ah

Long Service Life
More than 6000 cycles at 0.5C, 80% DoD and a design life of over 15 years at 25°C, maintenance-free

TECHNICAL NOTE

Four LiFePO4 rack modules: 25.6V 100Ah (2.56 kWh, 26.8kg), 25.6V 200Ah (5.12 kWh, 51.6kg), 51.2V 100Ah (5.12 kWh, 45.0kg), 51.2V 200Ah (10.24 kWh, 82.0kg). Charge 0–50°C, discharge and storage -20–55°C. Built-in BMS with RS485/CAN. Cycle life >6000 (0.5C, 80% DoD), design life >15 years. Up to 64 modules in parallel. Full per-model values on page 2.

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EU-LI RACK SERIES

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	25.6V 100Ah	25.6V 200Ah	51.2V 100Ah	51.2V 200Ah
GENERAL				
Model	EU-LI/Rack-100Ah/25.6V	EU-LI/Rack-200Ah/25.6V	EU-LIRack-100Ah 51.2V	EU-LIRack-200Ah 51.2V
Cell Chemistry	LiFePO4 (LFP)			
Installation	Rack-mounted module			
BATTERY MODULE				
Nominal Voltage	25.6 V (25°C, 0.2C)	25.6 V (25°C, 0.2C)	51.2 V (25°C, 0.2C)	51.2 V (25°C, 0.2C)
Nominal Capacity	100 Ah (25°C, 0.2C)	200 Ah (25°C, 0.2C)	100 Ah (25°C, 0.2C)	200 Ah (25°C, 0.2C)
Nominal Energy	2.56 kWh	5.12 kWh	5.12 kWh	10.24 kWh
Charging Voltage	28.0–28.8V	28.0–28.8V	56.0–57.0V	56.0–57.0V
Discharging Voltage	22.4V	22.4V	44.8V	44.8V
Charging Current	Max. constant 100A recommended 50A	Max. constant 100A recommended 50A	Max. constant 100A recommended 100A	Max. constant 200A recommended 100A
Discharging Current	Max. constant 100A	Max. constant 100A	Max. constant 100A	Max. constant 200A
Parallel	Up to 64 modules			
TEMPERATURE				
Charge Range	0–50°C			
Discharge Range	-20–55°C			
Storage Range	-20–55°C			
SERVICE LIFE				
Design Life	>15 years (25°C)			
Cycle Life	>6000 times, 0.5C, 80% DoD			
PHYSICAL				
Dimensions (W × D × H)	442 × 470 × 154 mm ±2mm	442 × 470 × 154 mm ±2mm	442 × 470 × 154 mm ±2mm	442 × 630 × 222 mm ±2mm
Module Weight	26.8 kg ±1kg	51.6 kg ±1kg	45.0 kg ±1kg	82.0 kg ±1kg
Terminals	M8 positive / negative			
Output Switch	Breaker			
IP Rating	Not available			
BMS – CHARGE PROTECTION				
Cell Over-voltage	3.8V · 1s · recovery 3.45V			
Module Over-voltage	30.0V · 1s · recovery 27.6V	30.0V · 1s · recovery 27.6V	60.0V · 1s · recovery 55.2V	60.0V · 1s · recovery 55.2V
Over-current 1	>102A · 20s delay	>102A · 20s delay	>102A · 20s delay	>205A · 10s delay
Over-current 2	≥120A · 3s delay	≥120A · 3s delay	≥120A · 3s delay	≥225A · 3s delay
Temperature	<-5°C or >70°C · recovery >0°C or <60°C			
BMS – DISCHARGE PROTECTION				
Cell Under-voltage	2.3V · 1s · recovery 3.1V			
Module Under-voltage	22.4V · 1s · recovery 24.0V	22.4V · 1s · recovery 24.0V	44.8V · 1s · recovery 48.0V	44.8V · 1s · recovery 48V
Over-current 1	>102A · 30s · recovery in 60s	>102A · 30s · recovery in 60s	>102A · 30s · recovery in 60s	>205A · 10s · recovery in 60s
Over-current 2	>150A · 3s · recovery in 60s	>150A · 3s · recovery in 60s	>150A · 3s · recovery in 60s	>300A · 3s · recovery in 60s
Short Circuit	>250A · <0.1ms	>250A · <0.1ms	>300A · <0.1ms	>600A · <0.1ms
Temperature	<-20°C or >75°C · recovery >-10°C or <65°C			
BMS – MONITORING				
PCB Temp. Protection	>105°C · recovery <80°C	>105°C · recovery <80°C	>105°C · recovery <80°C	>110°C · recovery <80°C
Cell Balance	120mA passive >40mV difference	120mA passive >40mV difference	100mA passive >40mV difference	120mA passive >40mV difference
Temperature Accuracy	3% · range -40–100°C			
Voltage Accuracy	0.5% · cells and module			
Current Accuracy	3% · range -200 to +200			
SOC Accuracy	5%			
Power Consumption	<300uA off · <14mA operating			
Communication	RS485 / CAN			
PANEL & INDICATORS				
Display	LCD: voltage, current, temp., SOC			
SOC Indicator	4 green LEDs			
Status LEDs	RUN, ALM			
Controls	ON/OFF, RESET, ID address			
Ports	CAN, RS485, Battery-Comm, GND			

**Specifications are subject to change without prior notice.*

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