

High Voltage Rack Mounted Lithium Batteries

EHV-R51150

51.2V/150Ah

EHV-R Series high voltage Grid-scale ESS rackmounted battery module is the basic energy storage unit of the energy storage system designed specially for commercial & industrial ESS solutions. The module selects high-consistency lithium iron phosphate battery cells, which can be packaged into groups through reasonable series-parallel connection and can achieve the following conditions 1000VDC use.



Flexible

- Modular design
- Can support many clusters in parallel up to MWH capacities

Smart

- Intelligent 3-level BMS

Reliable

- High safety LiFePO4 battery; Fire-safe, non-toxic; Lithium iron phosphate (LFP) cells
- Meet UL1973, IEC62619 UN38.3 certification. Battery cells comply with UL9540A standard

Technical Specifications

Model	
Cell	
Nominal Voltage	3.2V
Nominal Capacity	150Ah
Nominal Energy	480Wh
Allowed Max Charge Current	150A
Allowed Max Discharge Current	300A
Internal Resistance	≤ 2 m Ω @25 1kHz AC
Battery Module	
Battery Module Rated Energy	7.68kWh
Battery Module Voltage	51.2V
Battery Module Rated Capacity	150Ah
Maximum Charge Voltage	60V
Discharge Cut-off Voltage	43.2V
Depth of Discharge	80% DoD
Battery Modules Rack Configuration	14S (Configurable)
Charge method	Constant Current Charging (CC)
Cooling Method	Fan
Communication	RS485 / CAN
Weight	70 kg
Dimensions (WxDxH)	482 x 550 x 220 mm
Operating Temperature	-20°C~+55°C
Certifications	CE, UN38.3, UL1973

Highlights



FLEXIBLE



INTELLIGENT



SAFE AND RELIABLE