

Low-Voltage Rack-Mounted Lithium Energy Storage Battery

Model: FJ48100
5kWh



- Series/Parallel: Flexible expansion
- Standard Rack: Easy cabinet integration.
- High Density: 5.22kWh in compact size. Protection: IP21, indoor use
- Wide Voltage: 44.8–58.4V, 48V compatible. Smart BMS: CAN/RS485 monitoring

Battery Data

Cell Chemistry	LFP/102Ah			
Pack Configuration	51.2V			
Rated Energy (KWh)	1	2	3	4
Rated Capacity (Ah)	5.22	10.44	15.66	20.88
Rated Voltage (V)	590x390x145	590x390x290	590x390x435	590x390x 580
Operating Voltage Range (VDC)	46.8kg	93.6kg	140.4kg	187.2kg
Max. Continuous Charge/ Discharge Current (A)	44.8-58.4V			
BMS Communication	50A			
Depth of Discharge (%)	100A			
Serial and Parallel Quantities	CAN/RS485			
Depth of Discharge (%)	2-10 Pcs			

General Data

Dimensions(L*W*H) (mm)	590×390×145
Packaging Dimensions(L*W*H) (mm)	694×476×256
Weight (kg)	~46.8kg
Packaging Weight (kg)	~48.8kg
Altitude (m)	<4,000m (Derating above 2,000m)
Safety Protection	Over Charge/Discharge Protection, High/Low Temperature Protection, Over Current Protection, Short Circuit Protection, Cell Voltage Balancing.
IP Rating	IP20
Operating Temperature (°C)	Charge 0~55°C / Discharge -10~55°C
Relative Humidity	0 ~ 95%, Non-condensing
Cycle Life	6,000 Cycles
Installation Method	Rack-Mounted
Certifications	CE, RoHS, UN38.3

Featuring a standard rack-mounted design, each module offers 5.22kWh and supports flexible series/parallel expansion. It easily integrates into storage cabinets or UPS systems to provide reliable, scalable modular energy storage for telecom base stations, microgrids, or home battery walls.