



Rack-Mounted Lithium Battery

HJ-HBL48101R



Product Introduction

This is an ultra-high performance 51.2v200ah rack-mount lithium battery module that uses safe and long-life lithium iron phosphate (LiFePO₄) cells with high stability, low self-discharge rate and excellent shallow charge/discharge performance, designed for a variety of applications including renewable energy storage, backup power and industrial use



Easy installation



Safe and reliable



Intelligent Battery
Management System (BMS)



Environmentally
friendly design



Flexible configuration

Parameter

Product model	HJ-HBL48101R (B-23)	HJ-HBL48202R (B-24)
Battery Type	Lithium iron phosphate (LiFePO ₄)	
Capacity	100Ah	200Ah
Expandability	Maximum parallel connection: 16 units(81.92 kWh)	Maximum parallel connection: 16 units(163.84 kWh)
Nominal Voltage	51.2	
Operating Voltage	46-56	
Energy	5.12	10.24
Available Energy	4.61	9.22
Charging Voltage	58.4	
Recommended Discharge Depth	90%	
Dimensions((w*h*d)mm	482 x461 x133	482 x213 x760
Approximate Weight	42.5kg	89.5kg
Enclosure Protection Rating	IP20	
Operating Temperature	Charging: 0°C - 55°C; Discharging: -20°C - 55°C	
Storage Temperature	0°C - 35°C	
Humidity	5% - 95%	
Cycle Life	≥6500 cycles	
Installation Method	19-inch rack-mount installation	
Communication Interface	CAN2.0, RS485	482 x213 x760
Warranty Period	5 years	
Lifetime Energy Within Warranty Period	22.42 MWh (80% end-of-life)	80MWh (80% end-of-life)
Certification	CB-IEC62619, CE-EMC, MSDS, UN38.3	

Application Scenarios

The rack-mounted lithium-ion battery system, with its efficient integration, high performance, intelligent management, and high reliability, provides an ideal energy storage solution for critical applications such as data centers, communication base stations, and industrial automation, ensuring stable equipment operation and efficient energy utilization.