KJ-BESS-210-418L

210kW-418kWh-Liquid Cooling Battery Cabinet



High integration

High efficiency

High safety

PV, Storage & Charging Integration

Intelligent management

Product advantages

- Integrates AI algorithm optimization, battery modules, BMS, PCS, EMS, fire protection and temperature control systems in a highly compact design.
- Three-level fire protection (module, cluster, water system) and two-level explosion-proof design for modules and cabinets.
- Simplified installation and smaller footprint for efficient space utilization.
- Supports mobile APP and local web access for convenient on-site operation and maintenance.
- Enables smarter operation and higher economic benefits through AI-optimized energy management.

System parameters

Battery Parameter	
Nominal Energy	418kWh
Cell Specification	3.2V/314Ah,LFP
System Configuration	1P416S
Nominal Battery Voltage	1331.2V
Battery Voltage Range	1215V-1500V
Rated Charge / Discharge C-Rate	0.5C
Rated Depth of Discharge (DoD)	90%
Cycle Life	⩾8000@70% EOL

AC Parameter (On-grid)	
Rated Charge / Discharge Power	210kW
Maximum Charge / Discharge Power	231kW
Rated AC Voltage	800V
Rated Frequency	50Hz/60Hz
Rated Current	152A
Total Harmonic Distortion of Current (THDi)	⩽3% (Full Load)
DC Component	⩽0.5%
Power Factor Range	-1～1
Total Harmonic Distortion of Voltage (THDv)	⩽3% (Linear Load)
Unbalanced Load Capability	100%

System Parameter	
System Efficiency	⩾87% (@0.5P, 25°C)
Grid Connection Method	Three-phase Four-wire
Isolation Method	Non-isolated
Cooling Method	PCS: Air Cooling; Battery: Liquid Cooling
Enclosure Protection Rating	IP55
Corrosion Protection Class	C3 (C4 Optional)
Operating Temperature Range	-20°C~+50°C
Operating Humidity	0~95%RH
Maximum Operating Altitude	3000m (Derating ＞2000m)
Fire Suppression System	Temperature Sensors, Smoke Detectors, Aerosol Fire Suppression System, Pressure Relief Valve
Communication Protocols	Modbus TCP, Modbus RTU, MQTT, HTTP
Dimensions (W × H × D)	2330*1380*1400mm
Weight	≈4000kg
Warranty Period	5 years