

5MWh Liquid-Cooled Energy Storage Container System

Model: HJ-G0-5000L/HJB-G0-5000L Power: 5MWh

Summary

HighJoule's 5MWh liquid-cooled energy storage system offers a reliable, efficient, and scalable solution for commercial, industrial, and renewable energy sectors. The HJ-G0-5000L/HJB-G0-5000L series ensures continuous power, reduces energy costs, and supports sustainability, with advanced liquid cooling and seamless integration for optimized energy management.



5MWh Liquid-Cooled Energy Storage Container System (HJ-G0-5000L/HJB-G0-5000L)

Product Features

High-Capacity Storage

5016kWh storage with 3.2V/314Ah LiFePO4 or semi-solid-state batteries (12P416S configuration), delivering stable 0.5C charge-discharge for long-duration energy

supply.

Precise Liquid Cooling

Advanced liquid cooling system maintains optimal battery temperature, ensuring consistent performance and extending service life in varying operating conditions.

Outdoor-Ready Design

IP54-rated 20ft container with C4/C5 anti-corrosion grade, built to resist harsh environments including high humidity, salt spray, and extreme temperatures.

Modular & Scalable

Supports parallel expansion of multiple units, with flexible adaptation to energy demand growth; compatible with DC 1164.8~1497.6V voltage range for system integration.

All-in-One Integration

Integrated BMS, liquid cooling, and optional perfluorohexanone + water fire protection, paired with DC 1331.2V rated voltage for seamless operation.

Fast Deployment

Pre-assembled 20ft container design enables plug-and-play installation, reducing on-site setup time with standardized structure and connections.

Smart Monitoring

Real-time data tracking via CAN2.0/RJ45/RS485 protocols; compatible with CAN/MODBUS/IEC104/IEC61850 for remote system management.

Comprehensive Safety Design

Equipped with optional fire suppression system, thermal stability from LiFePO4 chemistry, and emergency protection to prevent risks like thermal runaway.

Multi-Scenario Application

Ideal for power grid peak regulation, renewable energy storage, telecom base stations, and off-grid projects, adapting to diverse energy needs.

Technical Parameters

Product Model	HJ-G0-5000L/HJB-G0-5000L
Battery parameters	
Battery Type	lithium iron phosphate (LiFePO4)/semi-solid-state battery
Battery Capacity	3.2V/314Ah
System Battery Configuration	12P416S
Power Storage	5016kWh
System Rated Voltage	DC 1331.2V
System Voltage Range	DC1164.8~DC1497.6V
Charge and Discharge Rate	0.5C
Battery Cooling Method	liquid cooling
System parameters	
Dimensions	20 feet container
Weight	45t
IP Rating	IP54
Anti-corrosion grade	C4/C5
Cooling method	Liquid Cooling

Fire protection system	Perfluorohexanone + water fire protection (optional)
Certificate	CAN/MODBUS/IEC104/IEC61850
Communication Protocol	CAN2.0/RJ45/RS485

Application

The 5MWh Liquid-Cooled Energy Storage Container System (Model: HJ-G0-5000L/HJB-G0-5000L) with 5016kWh storage excels in diverse scenarios: it supports grid peak shaving and frequency regulation via its 0.5C charge-discharge rate and wide voltage range; integrates with solar/wind farms, using precise liquid cooling to store surplus green energy stably; meets C&I needs like factories with modular expansion and plug-and-play deployment for quick setup; powers off-grid telecom base stations or island microgrids, thanks to IP54 protection and C4/C5 anti-corrosion grade for harsh environments; and serves as reliable emergency backup, with real-time monitoring via multiple protocols.

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