

Liquid-Cooled Containerized Energy Storage System

HJ-ESS-EPSL Series

Application Scenario

Grid Stabilization: Provides grid support by balancing supply and demand, storing excess energy, and delivering power during peak demand periods

Utility-Scale Storage: Can be deployed for utility-scale energy storage, ensuring grid reliability and renewable energy maximization

Industrial Energy Storage: Supports large industrial operations by providing reliable backup power and peak shaving capabilities, reducing operational costs

4. Disaster Recovery: Offers dependable backup power during natural disasters or grid outages, ensuring continuous energy supply for critical infrastructure.



High Energy Capacity

Offers scalable energy storage from 3440KWh to 5016KWh, catering to large-scale energy storage needs



Long Service Life

Built for a 20-year operational lifespan, offering long-term and reliable energy solutions.



Durable and Secure

Designed for outdoor use with robust, weatherproof containers, providing IP65 protection and ensuring safe operation in various climates.



Smart Energy Management

Integrated with intelligent monitoring and energy management systems for real-time control and seamless operation with grid and renewable sources



Enhanced Safety

Includes multiple safety mechanisms such as over-charge, over-discharge, short circuit protection, and intelligent thermal management

Description

The HJ-ESS-EPSSL Series is a high-capacity liquid-cooled containerized energy storage system for large-scale industrial, commercial, and utility applications. Capable of catering to demands in a capacity range of 3440KWh to 5016KWh, the system provides reliable energy storage solutions for power supply management, renewable energy integration, and grid stability. Being a containerized solution, it perfectly matches the scalable and flexible deployment requirement to ensure energy security with cost optimization for energy-intensive industries.

Product number	HJ-ESS-EPSSL2	HJ-ESS-EPSSL4
Battery Type	Lithium Iron Phosphate	Lithium Iron Phosphate
Battery Capacity	3.2V/280Ah	3.2V/314Ah
System Battery Configuration	10P384S	12P416S
System Rated Capacity	3440kWh	5016kWh
System Rated Voltage	DC 1228.8V	DC 1331.2V
Charge and Discharge Rate	0.5C	0.5C
Battery Cooling Method	Liquid Cooling	Liquid Cooling
System Parameters		
Size	20 Feet Container	20 Feet Container
Weight	35t	45t
Protection Level	IP54	IP54
Anti-Corrosion Level	C4/C5	C4/C5
Temperature Control Solution	Liquid Cooling	Liquid Cooling
Fire Protection Plan	Perfluorohexanone + water fire protection (optional)	
Communication Interface	CAN2.0/RJ45/RS485	

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