

# Liquid-Cooled Containerized Energy Storage System

Model: HJ-ESS-EPSL Series    Power: 3440KWh-5016KWh

## Summary

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The HJ-ESS-EPSL Series is a high-capacity liquid-cooled containerized energy storage system for large-scale industrial, commercial, and utility applications.



*Liquid-Cooled Containerized Energy Storage System (HJ-ESS-EPSL Series)*

## Product Features

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High Energy Capacity

Offers scalable energy storage from 3440KWh to 6880KWh, catering to large-scale energy storage needs

Smart Energy Management

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

Durable and Secure

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

Enhanced Safety

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

## Technical Parameters

### Battery parameters

Product number	HJ-ESS-EPSL2	HJ-ESS-EPSL4
<b>Battery parameters</b>		
<b>Battery Type</b>	<b>Lithium Iron Phosphate</b>	<b>Lithium Iron Phosphate</b>
<b>Battery capacity</b>	<b>3.2V/280Ah</b>	<b>3.2V/314Ah</b>
<b>System battery configuration</b>	<b>10P384S</b>	<b>12P416S</b>
<b>System rated capacity</b>	<b>3440kWh</b>	<b>5016kWh</b>
<b>System rated voltage</b>	<b>DC 1228.8V</b>	<b>DC 1331.2V</b>
<b>System voltage range</b>	<b>DC1075.2~DC1363.2V</b>	<b>DC1164.8~DC1497.6V</b>
<b>Charge and discharge rate</b>	<b>0.5C</b>	<b>0.5C</b>
<b>Battery cooling method</b>	<b>liquid cooling</b>	<b>liquid cooling</b>

### System specifications

Product number	HJ-ESS-EPSL2	HJ-ESS-EPSL4
<b>System parameters</b>		
<b>Size</b>	<b>20 feet container</b>	<b>20 feet container</b>
<b>Weight</b>	<b>35t</b>	<b>45t</b>

<b>Protection level</b>	<b>IP54</b>	<b>IP54</b>
<b>Anti-corrosion level</b>	<b>C4/C5</b>	<b>C4/C5</b>
<b>Temperature control solution</b>	<b>liquid cooling</b>	<b>liquid cooling</b>
<b>Fire protection plan</b>	<b>Perfluorohexanone + water fire protection (optional)</b>	<b>Perfluorohexanone + water fire protection (optional)</b>
<b>Protocol</b>	<b>CAN/MODBUS/IEC104/IEC 61850</b>	<b>CAN/MODBUS/IEC104/IEC 61850</b>
<b>Communication Interface</b>	<b>CAN2.0/RJ45/RS485</b>	<b>CAN2.0/RJ45/RS485</b>

## Application

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

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