

125kW/261kWh Liquid Cooling ESS

The 261 kwh liquid cooling energy storage cabinet is an optimized integration of high-quality 314Ah LFP Batteries, a self-developed Battery Management System (BMS) and Energy Management System (EMS) a thermal management system, an AC/DC power converter (PCS), a power distribution system, and a fire protection system. This product features an industry-leading design with separate compartments for the battery and electrical systems, The protection grade reaches IP55, effectively safeguarding and extending battery life.



Model	125kW / 261kWh
Basic Parameters	
Rated Power	125 kW
Battery Capacity	261 kWh
Cabinet Dimensions (W-D-H)	1000 mm * 1350 mm * 2380 mm
Weight	About 2.8t
DC Side Parameters	
Cell	LFP 3.2V / 314 Ah
System Configuration	1P52S*5
Battery Voltage Range	650.0VDC ~ 936.0VDC
AC Side Parameters	
Rated Output Voltage	400 (-15% ~ 15%) V
Rated Grid Frequency	50 ~ 60 Hz
Charge/Discharge Transition Time	< 100 ms
System Parameters	
Cycle Life	8000 ~ 10000 Times
Cabinet Energy Conversion Rate	Annual average exceeds 90%, with a maximum of over 91%
Battery Compartment IP grade	IP55
Operating Temperature	-20°C ~ +50°C
Corrosion Resistance Grade	C3
Overvoltage Protection	DCTypeI / ACType II
Fire Suppression System	PACK-level precision fire suppression + cabin-level fire suppression (using Perfluoro)+ water-based fire suppression
Overload Capacity	1.1 Times
Permissible Ambient Humidity	0 ~ 95% RH
Cooling Method	Intelligent liquid cooling

Product Feature

SAFETY Comprehensive safety measures are employed, including water-based fire suppression, battery compartment explosion-proof valves, and electronic dehumidifiers.	EFFICIENCY The cabinet's energy conversion rate averages over 90% annually, with a maximum exceeding 91%, 4%-5% higher than average rate.	LONG LIFESPAN Utilizing high-capacity, long-cycle-life premium battery cells from top-tier manufacturers, The cabinet is guaranteed for 12 years and can be used for up to 15 years.	CONVENIENCE Integrated power distribution design, easy installation, easy maintenance, and real-time online monitoring of equipment operation status.	FLEXIBILITY Seamless side-by-side configuration, supporting up to 10 units in parallel. The system features low-voltage side access and plug-and-play functionality.
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