

215kW/418kWh Liquid Cooling ESS

The 418 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	418L(Low Voltage)	418H(Tall Voltage)
Basic Parameters		
Rated Power	215 kW	215 kW
Battery Capacity	418 kWh	418 kWh
Cabinet Dimensions (W-D-H)	1420 mm * 1350 mm * 2390 mm	1420 mm * 1350 mm * 2390 mm
Weight	About 4 t	About 4 t
DC Side Parameters		
Cell	LFP 3.2 V / 314 Ah	LFP 3.2 V / 314 Ah
System Configuration	1P52S * 8	1P52S * 8
Battery Voltage Range	1164.8VDC ~ 1497.6VDC	1164.8VDC ~ 1497.6VDC
AC Side Parameters		
Rated Output Voltage	400(-15% ~ 15%) Vac(Low Voltage)	690(-15% ~ 15%) Vac
Rated Grid Frequency	50 ~ 60 Hz	50 ~ 60 Hz
Charge/Discharge Transition Time	< 100 ms	< 100 ms
System Parameters		
Cycle Life	8000 ~ 10000 Times	8000 ~ 10000 Times
Cabinet Energy Conversion Rate	Annual average exceeds 88%, with a maximum of over 89%	Annual average exceeds 88%, with a maximum of over 89%
Battery Compartment IP grade	IP55	IP55
Operating Temperature	-20 C ~ +50 C	-20 C ~ +50 C
Corrosion Resistance Grade	C3	C3
Overvoltage Protection	DCTypeI / ACType II	DCTypeI / ACType II
Fire Suppression System	PACK-level precision fire suppression + cabin-level fire suppression (using Perfluoro) + water-based fire suppression	PACK-level precision fire suppression + cabin-level fire suppression (using Perfluoro) + water-based fire suppression
Overload Capacity	1.1 Times	1.1 Times
Permissible Ambient Humidity	0 ~ 95% RH	0 ~ 95% RH
Cooling Method	Intelligent liquid cooling	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 88% annually, with a maximum exceeding 89%, 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

Supporting up to 12 units in parallel, enabling rapid connection to medium and high-voltage grids via a step-up transformer, also support low voltage (400V) access.