

5 MWh Liquid-cooling Energy Storage Container



Superb safety

- Triple fire protection measures guarantee early detection, accurate spraying, and rapid fire suppression throughout the entire process
- Big data intelligent fire monitoring system features panoramic surveillance and fire risk warning; risks spotted in advance, and rapid response taken across the system



High economic efficiency

- 315 Ah LFP cells with high energy density and prolonged cycle life realizes a cost reduction per kWh of 30 %.
- 5 MWh in one 20 ft container; side-by-side arrangement; saving over 40 % of the project area



Increasing flexibility

- Flexible system topology for various scenarios, including the power generation side, grid side, and user side
- Modular design enables flexible capacity and configuration

Product Model	5 MWh Liquid-cooling Energy Storage Container	
Duration of Charging and Discharging	2 h	4 h
Cell type	315 Ah LFP	
Cell energy	1008 Wh	
System parameters		
Operating temperature range	-30 °C~+50 °C	
Operating humidity range	0 %~95 % (non-condensing)	
Working altitude	≤2000 m	
DOD	0 %~100 %	
Cell configuration	12P416S	
System voltage range	1040 V~1500 V	
Rated power	2515 kW	1257 kW
Installed energy	5031 kWh	
Round-trip efficiency	94 %	95 %
Fire protection	Pack-level fire detection + perfluorohexanone fire extinguishing system + standard explosion-proof ventilation system + back-up fire water system (optional)	
Cell-level certification	UL 9540A, UL1973, IEC 62619	
Rack-level certification	UL 9540A, UL 1973, IEC62477	
System-level certification	NFPA 855, NFPA 68/69, IEC62933, UL 9540	
Cooling method	Liquid cooling	
Communication protocol	Modbus TCP, CAN 2.0, IEC 104	
Dimensions (L*W*H)	20 feet (6058 mm x 2438 mm x 2896 mm)	
Weight	≤44000 kg	
Level of protection	IP55	
Application		
Peak-valley arbitrage	✓	
Demand control	✓	
Frequency modulation at source side and grid side	✓	
Active/reactive power control	✓	
Black start	✓	

*Subject to actual delivery