Aqua-C2.5H 5015-2500-2h G2
Liquid-Cooled Energy Storage System

Optimal Cost

- Back-to-back and side-by-side design reduces footprint
- All pre-assembled, no battery module handling on site

Ultimate Security

- Intelligent management of battery health, early warning of faulty batteries
- Active ventilation and explosion venting design to control deflagration risks
- IEEE 693 high design level qualification compliance

Capacity Enhancement

- Modular design reduces failure impacts and improves system uptime
- Active balancing technology and bionic-inspired solutions enhance battery lifespan and system discharge capacity

Convenient O&M

- Active balancing reduces energy storage station O&M costs
- Rapid state detection and fault recording, to achieve rapid positioning and analysis of system faults.

Type Designation	Aqua-C2.5H 5015-2500-2h G2
DC-side Parameters	
Nominal Energy	5015.9kWh
Nominal Power	2507.9kW@0.5CP
Battery Voltage Range	1123.2–1497.6V
Nominal Battery Voltage	1331.2V
Cell Type	LFP 3.2V / 314Ah
System Configuration	1P416S*12
System Parameters	
Auxiliary Power Supply	480VAC, 60Hz
SOC Calculation Accuracy	≤3%(after balancing)
Operation Ambient Temperature Range	-30℃–50℃
Relative Humidity	≤100%RH (non-condensing)
Max. Working Altitude	≤2000m ≤4000m (optional)
Ingress Protection (IP) Rating	IP 55/Type 3S
Cooling Method	Intelligent liquid cooling
Noises	≤ 75dB (A), Standard version ≤ 65dB (A), Silencer assembly (optional)
Weight	≤42600kg
Anti-corrosion Degree	C3 C4 (optional) C5 (optional)
Seismic Level	IEEE 693 Low design level qualification IEEE 693 Moderate design level qualification (optional) IEEE 693 High design level qualification (optional)
Snow Load	30lb /sqft
Wind Load	129mph
Dimensions (W × D × H)	6058 mm × 2438 mm × 289 6mm
Fire Suppression System	Smoke and heat detectors, FACP, ventilation system, dry pipes with sprinklers, aerosol
Communication Interface	Ethernet
Standard Compliance	UL 9540A, UL1973, UL9540, UN 38.3 NFPA 855, NFPA 68, NFPA69 (with optional purchase)
Transportation	Fully populated with battery packs