

Aqua C2.5H-5015-2500-2h

Liquid-Cooled Energy Storage System



Low Costs

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



Effective and Flexible

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



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



Intelligent 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
DC-side Parameters	
Nominal Capacity	5015.9kWh
Nominal Power	2507.9kW@0.5CP 1253.9kW@0.25CP
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	400VAC, 50/60Hz
SOC Calculation Accuracy	≤3%(after balancing)
Operation Ambient Temperature Range	-30°C ~ 50°C
Relative Humidity	≤100%RH (non-condensing)
Max. Working Altitude	4000m
Protection Grade	IP 55
Temperature Control Method	Intelligent liquid cooling
Noise	≤ 75dB (A), Standard version ≤ 65dB (A), Silencer assembly (optional)
Weight	≤42600kg
Corrosion-proof Grade	C4 C5 (optional)
Seismic Level	IEEE 693 Moderate design level qualification IEEE 693 High design level qualification (optional)
Snow Load	30lb /sqft
Wind Load	129mph
Dimensions (W*D*H)	6058*2438*2896mm
Fire Suppression System	Smoke and heat detectors, FACP, ventilation system, dry pipes with sprinklers, aerosol
Communication Interface	Ethernet
Standard	IEC62933-5-2, EN 62477-1, IEC 61000, IEC 62619, IEC 63056, UN38.3/UN3536, CE
Transportation	Fully populated with battery packs

*Subject to actual delivery.

