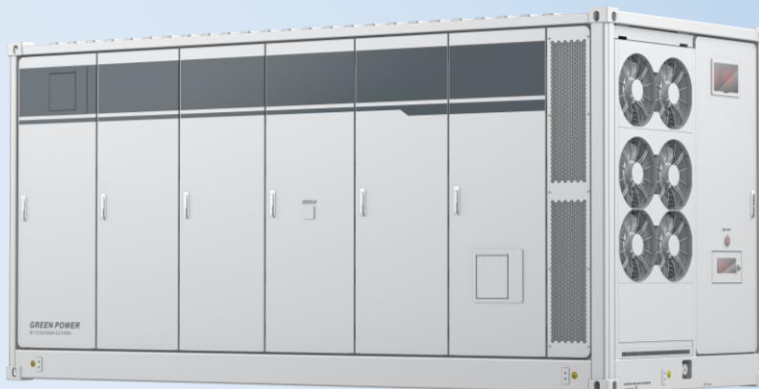


Aqua-C2.5S 5015-2500-2h IEC

Aqua-C2.5S 5015-1250-4h IEC

Liquid-Cooled Energy Storage System



* The illustration is for reference only. The actual product's appearance might vary depending on the configurations.



Optimal Costs

- Back-to-back and side-by-side layout design, reducing footprint
- Integrated AC/DC bi-directional inverter, reducing commissioning time



Ultimate Security

- Multi-level electrical protection, fire protection, arc flash analysis, and collaborative protection
- Intelligent management of battery health for early warning of faulty batteries
- Compliant with IEEE 693 moderate seismic level (standard) or high seismic level (optional)



Capacity Enhancement

- Modular design reduces failure impacts and improves system uptime.
- Intelligent active balancing technology (optional) and bio-inspired solutions enhance battery lifespan and system discharge capacity.



Convenient O&M

- Intelligent active balancing (optional) reduces energy storage station O&M costs.
- Rapid state detection and fault recording achieve rapid positioning and analysis of system faults.

Model	Aqua-C2.5S 5015-2500-2h IEC		Aqua-C2.5S 5015-1250-4h IEC
DC-side parameters			
Cell type	LFP 3.2 V/314 Ah		
Battery configuration	416S12P		
Nominal energy	5015.9 kWh		
Battery voltage range	1123.2–1497.6 V		
Nominal battery voltage	1331.2 V		
AC-side parameters			
Nominal power	1254 kVA × 2	1254 kVA	
Maximum THD of current	< 3% (at nominal power)		
DC component	< 0.5%		
Nominal voltage	690 V		
AC voltage range	607–759 V		
Nominal frequency	50/60 Hz		
Termination (LV)	1050 A × 3 phases × 2	1050 A × 3 phases	
Power factor	≥ 0.99 (at nominal power)		
Power factor range	–1 to +1		
System parameters			
Auxiliary power supply	400 V AC, 50/60 Hz		
Operating ambient temperature range	–30°C to +50°C (> 45°C derating)	–30°C to +50°C	
Relative humidity	≤ 100% RH (non-condensing)		
Maximum operating altitude	4000 m		
Ingress protection (IP) rating	IP55		
Cooling method	Intelligent liquid cooling		
Noise	≤ 75 dB (A)		
Weight	≤ 44000 kg		
Corrosivity category	● C3 ● C4 (optional) ● C5 (optional)		
Seismic level	● IEEE 693 moderate seismic level qualification ● IEEE 693 high seismic level qualification (optional)		
Snow load	1.44 kPa		
Wind load	57.7 m/s		
Dimension (W × D × H)	6058 × 2438 × 2896 mm		
Fire suppression system	Fire alarm control panel, smoke and heat detectors, alarm bell, horn strobe, gas detector, ventilation system (compliant with NFPA 69), standard fire hose connection to dry pipes with sprinklers heads inside, aerosol (optional), deflagration vent panel (optional)		
Communication	Ethernet		
Standard compliance	IEC 61000, IEC 62619, IEC 62933, IEC 63056, IEC 62477-1, EN 50549, G99, CEI 0-16, VDE-AR-N 4110, VDE-AR-N 4120, NTS 2.1, NTS SENP 1.1		