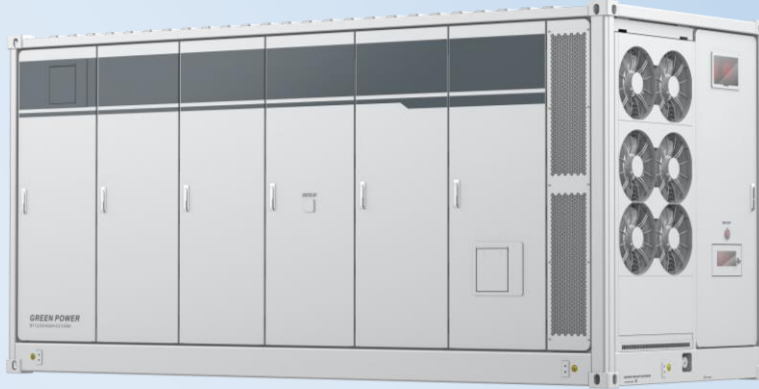


Aqua-C2.5S 5015-2500-2h UL

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

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 and bio-inspired solutions enhance battery lifespan and system discharge capacity.

Convenient O&M

- Intelligent active balancing 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 UL	Aqua-C2.5S 5015-1250-4h UL
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	480 V AC, 60 Hz	
Operating ambient temperature range	–22°F to +122°F (> 113°F derating) –30°C to +50°C (> 45°C derating)	–22°F to +122°F (–30°C to +50°C)
Relative humidity	≤ 100% RH (non-condensing)	
Maximum operating altitude	4000 m	
NEMA type	Type 3S	
Cooling method	Intelligent liquid cooling	
Noise	≤ 75 dB (A)	
Weight	≤ 97003 lbs (≤ 44000 kg)	
Corrosivity category	<ul style="list-style-type: none"> ● C3 ● C4 (optional) ● C5 (optional) 	
Seismic level	<ul style="list-style-type: none"> ● IEEE 693 moderate seismic level qualification ● IEEE 693 high seismic level qualification (optional) 	
Snow load	30 lb/sqft	
Wind load	129 mph	
Dimension (W × D × H)	238.5 in × 96.0 in × 114.0 in (6058 mm × 2438 mm × 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	UL 9540A, NFPA 855, NFPA 69, NFPA 68 (optional), UL1973, UL9540, UL 1741SB, IEEE 1547	