

Aqua C3.0H-6250-3125-2h

Liquid-Cooled Energy Storage System



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



Low Costs

- High-efficiency liquid cooling system minimizes energy loss, optimizing performance.
- Innovative back-to-back and side-by-side design significantly reduces the system footprint.
- Modular design & pre-assembled modules enable rapid deployment, reducing installation time and cost.



Ultimate Safety

- Multi-level active fire detection and protection system.
- Active ventilation and explosion-proof design to control deflagration risks.
- Compliance with IEEE 693 high seismic design level qualifications.



Performance & Flexibility

- Advanced thermal management ensures consistent performance and extends battery life.
- Engineered for exceptional reliability and stable operation, ensuring consistent power delivery.
- Industry-leading round-trip efficiency, maximizing energy utilization and reducing waste.



Intelligent O&M

- Advanced balancing technology reduces O&M costs and extends asset life.
- Real-time monitoring and smart fault recording enable rapid issue positioning and analysis.
- Predictive maintenance alerts minimize downtime and maximize system availability.

Type Designation	Aqua C3.0H-6250-3125-2h
DC-side Parameters	
Nominal Energy	6250 kWh
Nominal Power	3125 kW@0.5 CP
Battery Voltage Range	1123.2–1497.6 V
Nominal Battery Voltage	1331.2 V
Cell Type	LFP 3.2 V / 587 Ah
Battery Configuration	8P416S
System Parameters	
Auxiliary Power Supply	400 V AC, 50/60 Hz
SOC Calculation Accuracy	≤3% (after balancing)
Operation Ambient Temperature Range	-30°C–50°C (55°C optional)
Relative Humidity	≤100%RH (non-condensing)
Max. Working Altitude	2000 m 4000 m (optional)
Ingress Protection (IP) Rating	IP 55
Cooling Method	Intelligent liquid cooling
Weight	≤46000 kg
Anti-corrosion degree	C3 C4/C5 (optional)
Seismic Level	IEEE 693 Moderate design level qualification IEEE 693 High design level qualification (optional)
Snow Load	30 lb/sqft
Wind Load	129 mph
Dimensions (W × D × H)	6058 mm × 2438 mm × 2896 mm
Fire Suppression System	Smoke and heat detectors, FACP, ventilation system, dry pipes with sprinklers, aerosol
Communication Interface	Ethernet (Fiber optional)
Standard Compliance	IEC 62933-5-2, EN 62477-1, IEC 61000, IEC 62619, IEC 63056, UN 38.3/UN 3536, CE UL 9540A
Transportation	Fully populated with battery packs