Aqua-E-261-125-2h-IEC

Liquid-cooling C&I Energy Storage System

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

Investment savings

- Integrated system design, pre-installation and pre-commissioning, reducing the number of on-site adjustments.
- AI intelligent temperature control, system temperature difference ≤ 4°C, reduce 30% auxiliary power consumption.

Maximum performance

- Multi-stage PCS high-efficiency energy conversion technology to enhance the system charging and discharging efficiency up to 90%.
- Cloud AI optimization algorithms provide decision-making basis through high-accuracy forecasting for complex system operation and electricity market transactions, which can increase annual revenue by 15% to 20% and shorten the return on investment cycle.

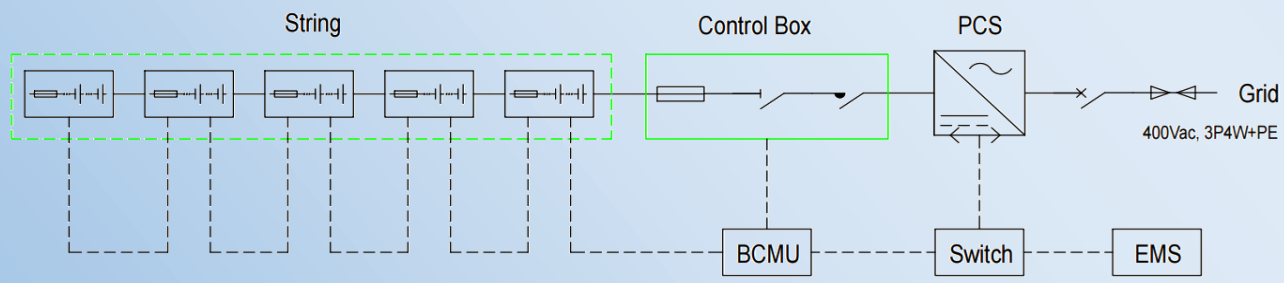
User experience upgrade

- User-friendly terminal design adaptable to various wire gauge requirements.
- Significantly reduced operational noise levels as low as 70dB.

Intelligent operation and maintenance

- Intelligent online monitoring, rapid state detection and fault recording to achieve rapid system fault location and analysis.
- Supports remote operation and maintenance, with intelligent O&M enhancing the efficiency of energy storage station operations, asset returns, and service revenues.

Circuit Diagram



Product Model	Aqua-E-261-125-2h-IEC
DC-side parameters	
Nominal capacity	261 kWh
Nominal power	125 kW
Battery voltage range	676–949 V DC
Cell type	LFP 3.2 V/314 Ah
System configuration	1P260S
AC-side parameters	
Nominal power	125 kW
THDi	< 3%
THDu (off-grid)	< 3%
DC component	< 0.5%
Nominal voltage	400 V AC
AC voltage range	340–460 V AC
Frequency range	50 ± 5 Hz
System Parameters	
Operating ambient temperature range	–30°C to +55°C (> 45°C derating)
Storage ambient temperature range	–30°C to +55°C
Relative humidity	5%–95% RH (non-condensing)
Max. operating altitude	2000 m
Ingress protection (IP) rating	IP55
System efficiency	≥ 87%@0.5P
Auxiliary power	Self-powered
Cooling method	Liquid cooling
Cycle life	≥ 7000 cycles
Weight	2700 ± 50 kg
Anti-corrosion degree	C3 C4 (optional)
Dimension (W × D × H)	1150 mm × 1500 mm × 2400 mm (without lifting eyes)
Fire suppression system	Smoke detector, heat detector, aerosol, horn strobe
Communication interface	Ethernet, CAN, RS485, 4G
Standard	IEC 62619, IEC 63056, IEC 62040, IEC 62477, UN 38.3
Transportation	Full populated with battery packs