

Aqua-E-233-110-2h

Liquid-cooling C&I Energy Storage System



Investment savings

- Integrated system design, pre-installation and pre-commissioning, reducing the number of on-site adjustments.
- AI intelligent temperature control, system temperature difference $\leq 5\text{ }^{\circ}\text{C}$, reduce 30% auxiliary power consumption



Extreme Stability

- First in the industry to be certified for Mean Time Between Failure (MTBF)
- Suitable for use in extreme environments such as deserts, seashores, extreme cold and high altitude environments, and corrosion resistant up to C5.



Maximum performance

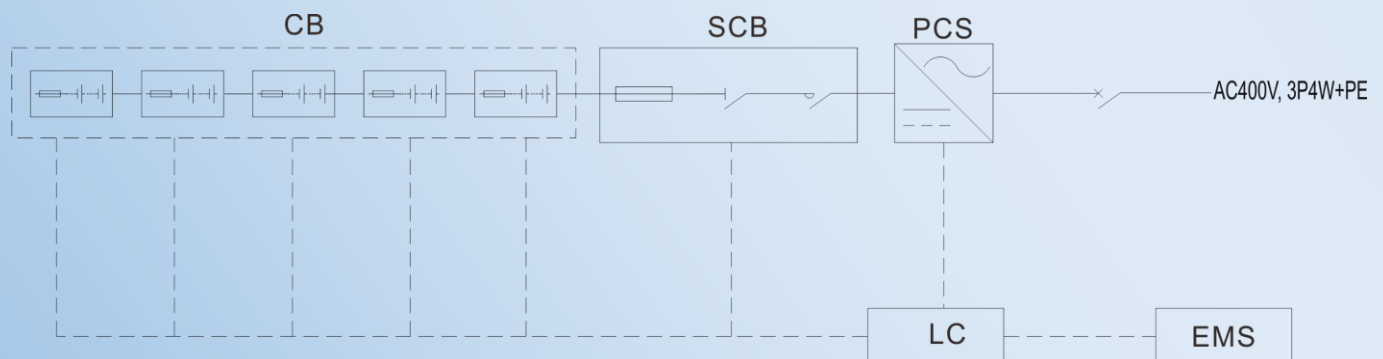
- Multi-stage PCS high-efficiency energy conversion technology to enhance the system charging and discharging efficiency up to 90%.
- Cloud AI optimization algorithm increases scheduling benefits and shortens the return on investment cycle



Intelligent Operation and Maintenance

- Intelligent online monitoring, rapid state detection and fault recording to achieve rapid system fault location and analysis.
- Supports on-site commissioning, eliminates on-site commissioning and reduces construction cycle time by 50%

Circuit Diagram



Type Designation	Aqua-E-233-110-2h
DC-side Parameters	
Nominal Capacity	233kWh
Nominal Power	110kW
Battery Voltage Range	676~949Vdc
Cell Type	LFP 3.2V/280Ah
System Configuration	1P260S
AC-side Parameters	
Nominal Power	110kW
Max. THD of Current	< 3%
AC Voltage Harmonics	< 3%
DC Component	< 0.5%
Nominal Voltage	400Vac
AC Voltage Range	340~460Vac
Frequency Range	50±5Hz
System Parameters	
Operating Temperature Range	-30~55°C (> 45°C derating)
Storage Temperature Range	-30°C~55°C
Relative Humidity	5%~95%RH, (Non-condensing)
Max. Working Altitude	2000m
Protection Grade	IP55
System Efficiency	≥87%@0.5P
Auxiliary Power	Self-powered
Cooling Concept	Liquid cooling
Cycle Life	≥7000 Cycles
Weight	2450±50kg
Corrosion-proof Grade	C4, C5 (Optional)
Dimensions (W*D*H)	1050*1350*2400mm
Fire Suppression Concept	Aerosol, Smoke detector, heat detector, Horn Strobe
Communication Interface	Ethernet/CAN/RS485,4G(Optional)
Compliance	IEC62619, IEC63056, IEC62040, IEC62477, UN38.3
Transportation	Full populated with battery packs

*Subject to actual delivery.