

C&I Liquid-cooling Energy Storage System



Investment savings

- Integrated system design with pre-installation and pre-debugging reduces on-site debugging and minimizes the user's footprint to approximately 1.42□.
- Intelligent temperature control, system temperature difference $\leq 4^{\circ}\text{C}$, extending the battery life.



Maximum performance

- Maximizes revenue with high energy conversion efficiency, achieving a comprehensive system efficiency of $\geq 87\%$.
- Intelligent BMS management extends system lifespan by 2 years and enhances cell discharge capacity by 10% throughout its lifecycle.



Extreme Stability

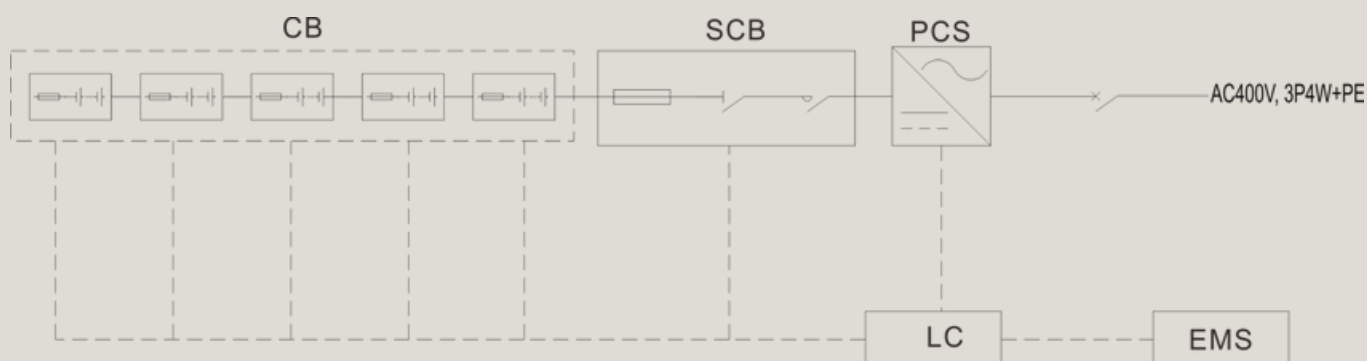
- Deep learning algorithms accurately predict potential fault risks, automatically generate repair recommendations, and pinpoint faulty components
- Suitable for extreme environments such as deserts, seashores, extreme cold, and high altitudes, with a corrosion protection rating of up to C5.



Intelligent Operation and Maintenance

- Panoramic monitoring, integrated with AI algorithms, enables dynamic strategy optimization; OTA remote maintenance reduces labor costs.
- AI+cloud-edge-device intelligent operation and maintenance, incorporating data governance, secure operation, and energy management.

Circuit Diagram



Subject to change without notice.

Type Designation	Arnion-AE-233-110
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
THDi	□3%
THDu□off-grid□	□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)
Investment savings	1050*1350*2400mm
Fire Suppression Concept	Aerosol□Temperature sensor□Smoke sensor□Conventional sounder storbe
Communication Interface	Ethernet/CAN/RS485,4G(Optional□
Compliance	IEC62619, IEC63056, IEC62477, UN38.3
Transportation	Full populated with battery packs

*Subject to actual delivery.

