



Midea Industrial Tech.



Aqua-E-233 C&I Liquid-Cooled System

Investment savings

- Integrated system design with pre-installation and pre-debugging reduces on-site debugging and minimizes the user's footprint to approximately 1.42m².
- Intelligent temperature control, system temperature difference $\leq 4^{\circ}\text{C}$, extending the battery life.

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.

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

Intelligent O&M

- 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

Type Designation	Aqua-E-233-110-2h
DC-side Parameters	
Nominal Capacity	233 kWh
Nominal Power	110 kW
Battery Voltage Range	676 ~ 949 VDC
Cell Type	3.2 V / 280 Ah
System Configuration	1P260S
AC-side Parameters	
Nominal Power	110 kW
THDi	< 3%
THDu (Off-Grid)	< 3%
DC Component	< 0.5%
Nominal Voltage	400 VAC
AC Voltage Range	340 ~ 460 VAC
Frequency Range	50 ± 5 Hz
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	2000 m
Protection Grade	IP55
System Efficiency	≥ 87% @ 0.5P
Auxiliary Power	Self-Powered
Cooling Concept	Liquid Cooling
Cycle Life	≥ 7000 Cycles
Weight	2450 ± 50 kg
Corrosion-proof Grade	C4, C5 (Optional)
Dimensions (W*D*H)	1050*1350*2400 mm
Fire Suppression Concept	Aerosol, Temperature Sensor, Smoke Sensor, Conventional Sounder Strobe
Communication Interface	Ethernet / CAN/RS485,4G (Optional)
Compliance	IEC 62619, IEC 63056, IEC 62477, UN 38.3
Transportation	Full Populated with Battery Packs