



Midea Energy

# Aqua-E-233-110-2h Liquid-Cooled 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  $\leq 5$  °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 C4.

## 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 O&M

- 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%.

Type Designation	Aqua-E-233-110-2h
<b>DC-side Parameters</b>	
Nominal Capacity	233kWh
Nominal Power	110kW
Battery Voltage Range	676 ~ 949VDC
Cell Type	LEP 3.2 V/280Ah
System Configuration	1P260S
<b>AC-side Parameters</b>	
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
<b>System Parameters</b>	
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	C3, C4 (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, IEC62477, UN38.3
Transportation	Full populated with battery packs