



Midea Energy



Aqua-C3.0S-5154-1250-4h Liquid Cooling Energy Storage System

Highly Integrated, Low Cost

- 14.5-foot AC/DC integrated lightweight design, reducing offshore transportation costs and on-site installation and commissioning time.
- Innovative compact Pack design, significantly reducing components, increasing space utilization and lowering system costs.

Maximized Energy Capacity, High Efficiency

- Modular design supports cluster-level power management, effectively improving system uptime; integrated silicon carbide string PCS with industry-leading system efficiency.
- Supports active balancing technology and efficient intelligent liquid cooling strategies, comprehensively enhancing system efficiency and lifespan.

Ultimate Safety, High Protection

- Multi-level electrical protection, fire protection linkage, and arc flash protection working together to build a comprehensive safety barrier.
- Equipped with adaptive protection BMS algorithm, accurately predicting risks, and enhancing system safety redundancy.

Smart Operation and Maintenance, High Efficiency

- Supports local intelligent monitoring, reducing inspection frequency, and eliminating the need for on-site battery charging.
- Rapid status detection and fault recording, enabling quick location and analysis of system faults.

Model Number	Aqua-C3.0S-5154-1250-4h
DC-side Parameters	
Nominal Energy	5154.3 kWh
Nominal Power	1288 kW@0.25CP
Battery Voltage Range	1060~1411.2 V
Nominal Battery Voltage	1254.4 V
Cell Type	LFP 3.2V / 587 Ah
AC-side Parameters	
Nominal power	1288 kVA
Maximum THD of current	< 3% (at nominal power)
DC component	< 0.5%
Nominal voltage	690 V
AC voltage range	607~759 V
Nominal frequency	50 Hz/60 Hz
Termination (LV)	1080 A × 3 phase
Power factor	≥ 0.99 (at nominal power)
Power factor range	-1 to +1
System parameters	
Auxiliary power supply	400 V AC, 50 Hz/60 Hz
Operating ambient temperature range	-30°C ~ 50°C (> 45°C derating)
Relative humidity	≤ 100% RH (no condensation)
Maximum operating altitude	2000 m 4000 m (optional)
Ingress protection (IP) rating	IP55
Cooling method	Intelligent Liquid Cooling
Weight	≤ 38700 kg
Anti-corrosion degree	C4 C5 (optional)
Seismic level	IEEE 693-M IEEE 693-H (optional)
Snow load resistance	30lb /sqft
Wind load resistance	129mph
Dimension (W × D × H)	4400 × 2438 × 3050 mm
Fire suppression system	Fire alarm control panel, smoke and temperature detectors, alarm sounder, alarm light, gas detectors, ventilation system, water fire-fighting, aerosol
Communication	Ethernet
Standard compliance	IEC 61000, IEC 62619, IEC 62933, IEC 63056, IEC 62477-1, EN 50549, G99, CEI 0-16, VDE-AR-N 4110, VDE-AR-N 4120, NTS 2.1, NTS SENP 1.1, UL 9540A, UL 9540, UL1741SB, IEEE1547



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Aqua-C3.0H-5154-1250-4h Liquid-Cooled Energy Storage System

Extreme Integration, High Density

- 13-foot streamlined design, significantly reducing comprehensive transportation costs, enabling rapid deployment in all scenarios.
- Innovative compact Pack design, significantly reducing components, enhancing space utilization and lowering system costs.

Maximum Energy, High Efficiency

- The modular design supports cluster-level fault exit management, effectively improving the system's online rate.
- Active balancing technology, in conjunction with efficient and intelligent liquid cooling strategies, comprehensively optimizes system efficiency and service life.

Ultimate Safety, High Protection

- Multi-level electrical protection, fire protection linkage, and arc flash protection working together to build a comprehensive safety barrier for all scenarios.
- Equipped with adaptive protection BMS algorithm, accurately predicting risks and reinforcing system safety redundancy.

Smart O&M, High Efficiency

- Local intelligent monitoring reduces inspection frequency and eliminates the need for manual on-site battery charging.
- Rapid status detection and fault recording functions enable precise fault location and efficient analysis.

Parameter	Aqua-C3.0H-5154-1250-4h
DC-side Parameters	
Nominal Energy	5154.3 kWh
Nominal Power	1288 kW@0.25CP
Battery Voltage Range	1060~1411.2 V
Nominal Battery Voltage	1254.4 V
Cell Type	LFP 3.2V / 587 Ah
System Parameters	
Auxiliary power supply	400 V AC, 50 / 60 Hz
Operating ambient temperature range	-30 °C ~ 50 °C
Relative humidity	≤100%RH (non-condensing)
Maximum operating altitude	2000 m (standard) 4000 m (optional)
Ingress Protection (IP) Rating	IP 55
Cooling Method	Intelligent Liquid Cooling
Weight	≤38000 kg
Anti-corrosion Degree	C4 (standard) C5 (optional)
Seismic Level	IEEE 693-M Level (standard) IEEE 693-H Level (optional)
Snow load resistance	30 lb /sqft
Wind load resistance	129 mph
Dimension (W × D × H)	3950*2438*3100 mm
Fire suppression system	Fire alarm control panel, smoke and heat detectors, alarm sounder, horn strobe, gas detector, ventilation system, standard fire hose connection, aerosol
Communication	Ethernet
Standard compliance	IEC 61000, IEC 62619, IEC 62933, IEC 63056, IEC 62477-1, UL9540, UL9540A, NFPA855, NFPA69