Midea Energy

Aqua-C2.5 Liquid-Cooled System

Excellent Safety

- Intelligent management of battery health, early warning of faulty batteries.
- Active ventilation and explosion venting design to control deflagration risks.
- Multi-level electrical protection and fire protection design, with arc flash analysis and collaborative protection functions.

Excellent Performance

- Modular design reduces failure impacts and improves system uptime.
- Active balancing technology and bionic-inspired solutions enhance battery lifespan and system discharge capacity.
- IEEE 693 high design level qualification compliance.

Optimal costs

- Back-to-back and side-by-side design reduces footprint.
- All pre-assembled, no battery module handling on site.
- Integrated AC/DC built-in bi-directional inverter, reducing debugging time (for string pcs version).

Smart O&M

- Active balancing reduces energy storage station O&M costs.
- Rapid state detection and fault recording to achieve rapid positioning and analysis of system faults.

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A Global Leader in ESS Commercialization

TIER 1
BloombergNEF
Energy Storage Manufacturer

FORTUNE GLOBAL 500™ 2025

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STRING PCS VERSION

Type Designation	Aqua-C2.5S 5015-2500-2h UL	Aqua-C2.5S 5015-1250-4h UL
DC-side Parameters		
Cell Type	LFP3.2 V / 314 Ah	
Battery Configuration	1P416S*12	
Nominal Capacity	5015.9 kWh	
Battery Voltage Range	1123.2~1497.6 V	
Nominal Battery Voltage	1331.2 V	
AC-side Parameters		
Nominal Power	1290 kVA *2	1290 kVA
Max. THD of Current	< 3 % (nominal power)	
DC Component	< 0.5 %	
Nominal Voltage	690 V	
AC Voltage Range	607 V~759 V	
Nominal Frequency	60 Hz	
Termination (LV)	1080 A * 3 Phase * 2	1080 A * 3 Phase
Power Factor	≥ 0.99 (Nominal Power)	
Power Factor Range	- 1 ~ 1	
System Parameters		
Auxiliary Power Supply	480 V AC, 60 Hz	
Operation Ambient Temperature Range	-30 °C to +55 °C (-22 °F to 131 °F)	
Relative Humidity	≤ 100% RH (non-condensing)	
Max. Working Altitude	4000 m (13123 ft)	
Protection Grade	IP55	
Temperature Control Method	Intelligent liquid cooling	
Weight (approx.)	44000 kg (97003 lb)	
Corrosion-proof Grade	C4 C5 (optional)	
Seismic Level	IEEE 693 Moderate Design Level Qualification IEEE 693 High Design Level Qualification (optional)	
Snow Load	30 lb /sqft	
Wind Loads	129 mph	
Dimensions (W × D × H)	6058 × 2438 × 2896 mm (238.5 × 96.0 × 114.0 in)	
Fire Suppression System	Fire alarm control panel, Smoke and heat detectors, Alarm bell, Horn strobe, Gas detector, Ventilation system (NFPA 69 compliance), Dry pipes with sprinklers, Aerosol (optional), Deflagration vent panel (optional)	
Communication Interface	Ethernet	
Standard Compliance	UL 9540A, NFPA 855, NFPA 69, NFPA 68 (optional), UL 1973, UL 9540, UL 1741SB, IEEE 1547	

HIGH-VOLTAGE BOX VERSION

Type Designation	Aqua-C2.5H 5015-2500-2h UL	Aqua-C2.5H 5015-2500-4h UL
DC-side Parameters		
Nominal Capacity	5015.9 kWh	
Nominal Power	2500 kW@0.5CP	1250 kW@0.25CP
Battery Voltage Range	1123.2~1497.6 V	
Nominal Battery Voltage	1331.2 V	
Cell Type	LFP 3.2 V / 314 Ah	
System Configuration	1P416S*12	
System Parameters		
Auxiliary Power Supply	480 V AC, 60 Hz	
SOC Calculation Accuracy	≤3 % (after balancing)	
Operation Ambient Temperature Range	-30°C to +55°C (-22°F to 131°F)	
Relative Humidity	≤100% RH (non-condensing)	
Max. Working Altitude	4000 m (13123 ft)	
Protection Grade	IP55	
Temperature Control Method	Intelligent Liquid Cooling	
Weight	42600 kg (93917 lb)	
Corrosion-proof Grade	C4 C5 (optional)	
Seismic Level	IEEE 693 Moderate Design Level Qualification IEEE 693 High Design Level Qualification (optional)	
Snow Load	30 lb / sqft	
Wind Load	129 mph	
Dimensions (W x D x H)	6058 × 2438 × 2896 mm (238.5 × 96.0 × 114.0 in)	
Fire Suppression System	FACP, Smoke and Heat Detectors, Flammable Gas Detector, Horn strobe, Compliance Ventilation System, Dry Pipes with Sprinklers, Aerosol	
Communication Interface	Ethernet	
Standard Compliance	UL 9540A, NFPA 855, NFPA 69, NFPA 68 (optional), UL 1973, UL 9540, UL 1741SB, IEEE 1547	

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STRING PCS VERSION

Type Designation	Aqua-C2.5S-5015-2500-2h	Aqua-C2.5S-5015-1250-4h
DC-side Parameters		
Cell Type	LFP3.2V / 314Ah	
Battery Configuration	1P416S*12	
Nominal Capacity	5015.9kWh	
Battery Voltage Range	1123.2~1497.6V	
Nominal Battery Voltage	1331.2V	
AC-side Parameters		
Nominal Power	1290kVA *2	1290kVA
Max. THD of Current	< 3 % (nominal power)	
DC Component	< 0.5 %	
Nominal Voltage	690V	
AC Voltage Range	607V ~759V	
Nominal Frequency	50Hz / 60Hz	
Termination (LV)	1080 A * 3 Phase * 2	1080 A * 3 Phase
Power Factor	≥ 0.99 (Nominal Power)	
Power Factor Range	- 1 ~ 1	
System Parameters		
Auxiliary Power Supply	400VAC, 50Hz / 60Hz 480VAC, 60Hz	
Operation Ambient Temperature Range	-30℃ ~ 55℃	
Relative Humidity	≤ 100% RH (non-condensing)	
Max. Working Altitude	4000m	
Protection Grade	IP 55	
Temperature Control Method	Intelligent liquid cooling	
Weight	≤ 44000kg	
Corrosion-proof Grade	C4 C5 (optional)	
Seismic Level	IEEE 693 Moderate Design Level Qualification IEEE 693 High Design Level Qualification (optional)	
Snow Load	30 lb /sqft	
Wind Loads	129 mph	
Dimensions (W*H*D)	6058*2896*2438mm	
Fire Suppression System	Fire alarm control panel, Smoke and heat detectors, Alarm bell, Horn strobe, Gas detector, Ventilation system (NFPA 69 compliance), Dry pipes with sprinklers, Aerosol (optional), Deflagration vent panel (optional)	
Communication Interface	Ethernet	
Standard	IEC62477-1, IEC62619, IEC61000, IEC62933, IEC63056, EN50549 G99, CEI 0-16, VDE-AR-N 4110, VDE-AR-N 4120, NTS 2.1, NTS SENP 1.1	

HIGH-VOLTAGE BOX VERSION

Type Designation	Aqua-C2.5H-5015-2500-2h	Aqua-C2.5H-5015-2500-4h
DC-side Parameters		
Nominal Capacity	5015.9kWh	
Nominal Power	2500kW@0.5CP	1250kW@0.25CP
Battery Voltage Range	1123.2~1497.6V	
Nominal Battery Voltage	1331.2V	
Cell Type	LFP 3.2V / 314Ah	
System Configuration	1P416S*12	
System Parameters		
Auxiliary Power Supply	400VAC, 50Hz / 60Hz 480VAC, 60Hz	
SOC Calculation Accuracy	≤3 % (after balancing)	
Operation Ambient Temperature Range	-30℃ ~ 55℃	
Relative Humidity	≤100% RH (non-condensing)	
Max. Working Altitude	4000m	
Protection Grade	IP55	
Temperature Control Method	Intelligent Liquid Cooling	
Weight	≤ 42600kg	
Corrosion-proof Grade	C4 C5 (optional)	
Seismic Level	IEEE 693 Moderate Design Level Qualification IEEE 693 High Design Level Qualification (optional)	
Snow Load	30lb / sqft	
Wind Load	129 mph	
Dimensions (W*D*H)	6058*2438*2896mm	
Fire Suppression System	FACP, Smoke and Heat Detectors, Flammable Gas Detector, Horn strobe, Compliance Ventilation System, Dry Pipes with Sprinklers, Aerosol	
Communication Interface	Ethernet	
Standard	IEC62933-5-2, EN62477-1, IEC61000, IEC62619, IEC63056, UN38.3/UN3536, CE	

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