



Midea Energy



Aqua-C3.0S Liquid-Cooled System

Lower Investment Cost

- Higher energy density delivers superior cost efficiency.
- Side-by-side and back-to-back design reduces the footprint.
- Integrated AC&DC delivery cuts down construction costs.

Optimal Performance

- Intelligent active balancing (optional) significantly boosts system capacity over the entire lifecycle.
- High-grade seismic and corrosion-resistant design, coupled with an advanced thermal management system, enables stable operation in extreme environments, such as high/low temperature areas, sandstorm zones, salt spray regions and seismic zones.

Enhanced Safety

- Equipped with active ventilation and explosion venting system for maximum fire safety.
- Innovative liquid-electric separation design lowers the risk of short circuits.
- AI-based fault early warning system status to eliminate potential hazards proactively.

Lower O&M Cost

- Integrated string-type PCS with a one-string one-management mode effectively improves system availability.
- Intelligent O&M minimizes downtime and maximizes power output.

Technical Data	Aqua-C3.0S 6251-1563-4h IEC
DC-side Parameters	
Cell Type	LFP3.2 V/587 Ah
Battery Configuration	1P416S*8
Nominal Capacity	6251 kWh
Battery Voltage Range	1123.2–1497.6 V
Nominal Battery Voltage	1331.2 V
AC-side Parameters	
Nominal Power	1563 kVA
Current THD	< 3% (nominal power)
DC Component	< 0.5%
Nominal Voltage	690 V
AC Voltage Range	607–759 V
Nominal Frequency	50 Hz/60 Hz
Termination (LV)	1500A × 3 Phase
Power Factor	≥0.99 (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 to +50°C
Relative Humidity	≤ 100% RH (non-condensing)
Max. Operating Altitude	4000 m
Ingress Protection (IP) Rating	IP55
Temperature Control Method	Intelligent liquid cooling
Weight (approx.)	47000 kg
Corrosion-proof Grade	<ul style="list-style-type: none"> • C3 • C4 (optional), C5 (optional)
Seismic Level	<ul style="list-style-type: none"> • IEEE 693 moderate design level qualification • IEEE 693 high design level qualification (optional)
Snow Load	1.44 kPa
Wind Load	57.7 m/s
Dimensions (W × H × D)	6058 × 2896 × 2438 mm
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	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