



Midea Energy



Aqua-E-261-125-2h-IEC

Liquid-Cooled C&I Energy Storage System

Investment Savings

- Integrated system design, pre-installation and pre-commissioning, minimizing on-site adjustments.
- AI intelligent temperature control, system temperature difference $\leq 4^{\circ}\text{C}$, reduce 30% auxiliary power consumption.

User Experience Upgrade

- User-friendly terminal design adaptable to various wire gauge requirements.
- Significantly reduced operational noise levels as low as 70dB.

Maximum Performance

- Multi-stage PCS high-efficiency energy conversion technology to enhance the system charging and discharging efficiency up to 87%.
- Cloud AI optimization algorithms provide decision-making basis through high-accuracy forecasting for complex system operation and electricity market transactions, which can increase annual revenue by 15% to 20% and shorten the return on investment cycle.

Intelligent Operation and Maintenance

- Intelligent online monitoring, rapid state detection and fault recording to achieve rapid system fault location and analysis.
- Supports remote operation and maintenance, with intelligent O&M enhancing the efficiency of energy storage station operations, asset returns, and service revenues.

| Product Model | Aqua-E-261-125-2h-IEC |
|-------------------------------------|---|
| DC-side parameters | |
| Nominal capacity | 261kWh |
| Nominal power | 125kW |
| Battery voltage range | 676–949VDC |
| Cell type | LFP3.2V/314Ah |
| System configuration | 1P260S |
| AC-side parameters | |
| Nominal power | 125kW |
| THDi | < 3% |
| THDu (off-grid) | < 3% |
| DC component | < 0.5% |
| Nominal voltage | 400 V AC |
| AC voltage range | 340–460 V AC |
| Frequency range | 50 ± 5 Hz |
| System Parameters | |
| Operating ambient temperature range | –30°C to +55°C (> 45°C derating) |
| Storage ambient temperature range | –30°C to +55°C |
| Relative humidity | 5%–95% RH (non-condensing) |
| Max. operating altitude | 2000 m |
| Ingress protection (IP) rating | IP55 |
| System efficiency | ≥ 87%@0.5P |
| Auxiliary power | Self-powered |
| Cooling method | Liquid cooling |
| Cycle life | ≥ 7000 cycles |
| Weight | 2700 ± 50 kg |
| Anti-corrosion degree | C3 C4 (optional) |
| Dimension (W × D × H) | 1150mm × 1500mm × 2400mm (without lifting eyes) |
| Fire suppression system | Smoke detector, heat detector, aerosol, horn strobe |
| Communication interface | Ethernet, CAN, RS485, 4G |
| Standard | IEC62619, IEC63056, IEC62040, IEC62477, UN38.3 |
| Transportation | Full populated with battery packs |



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* The illustration is for reference only. The actual product's appearance might vary depending on the configurations.

Aqua-E 261-125-2h UL

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 $\leq 4^{\circ}\text{C}$, reduce 30% auxiliary power consumption.

User Experience Upgrade

- User-friendly terminal design adaptable to various wire gauge requirements.
- Significantly reduced operational noise levels as low as 70dB.
- The entire cabinet's anti-corrosion level can reach C4, meeting the requirements for harsh operating conditions

Maximum Performance

- Multi-stage PCS high-efficiency energy conversion technology to enhance the system charging and discharging efficiency up to 90%.
- Cloud AI optimization algorithms provide decision-making basis through high-accuracy forecasting for complex system operation and electricity market transactions, which can increase annual revenue by 15% to 20% and shorten the return on investment cycle.

Intelligent Operation and Maintenance

- Intelligent online monitoring, rapid state detection and fault recording to achieve rapid system fault location and analysis.
- Supports remote operation and maintenance, with intelligent O&M enhancing the efficiency of energy storage station operations, asset returns, and service revenues.

| Type Designation | Aqua-E 261-125-2h UL |
|-------------------------------------|--|
| DC-side parameters | |
| Nominal capacity | 261kWh |
| Nominal power | 125kW |
| Battery voltage range | 676–949 V DC |
| Cell type | LFP3.2V/314 Ah |
| System configuration | 1P260S |
| AC-side parameters | |
| Nominal power | 125 kW |
| THDi | < 3% |
| THDu (off-grid) | < 3% |
| DC component | < 0.5% |
| Nominal voltage | 480 V AC |
| AC voltage range | 340–460 V AC |
| Frequency range | 60 ± 5Hz |
| System Parameters | |
| Operating ambient temperature range | –30°C to +55°C (-22°F to 131°F, >113°F derating) |
| Storage ambient temperature range | –30°C to +55°C (-22°F to 131°F) |
| Relative humidity | 5%–95% RH (non-condensing) |
| Max. operating altitude | 2000 m (6562 ft) |
| Ingress protection (IP) rating | IP55 |
| System efficiency | ≥ 87%@0.5P |
| Auxiliary power | Self-powered |
| Cooling method | Liquid cooling |
| Cycle life | ≥ 7000 cycles |
| Weight (approx.) | 2700 ± 50 kg (5952 ± 110 lb) |
| Anti-corrosion degree | C4 |
| Dimension (W × D × H) | 1520 × 1390 × 2000 mm (59.8 × 54.7 × 78.7 in, without lifting eyes) |
| Fire suppression system | Smoke detector, heat detector, aerosol, horn strobe, gas detector(H ₂), exhaust device, inlet device |
| Communication interface | Ethernet, CAN, RS485, 4G |
| Standard compliance | NFPA 855, NFPA 69, NFPA 70, NFPA 72, UL 9540A, UL 9540, UN38.3, UL 1741 |

*Subject to actual delivery.