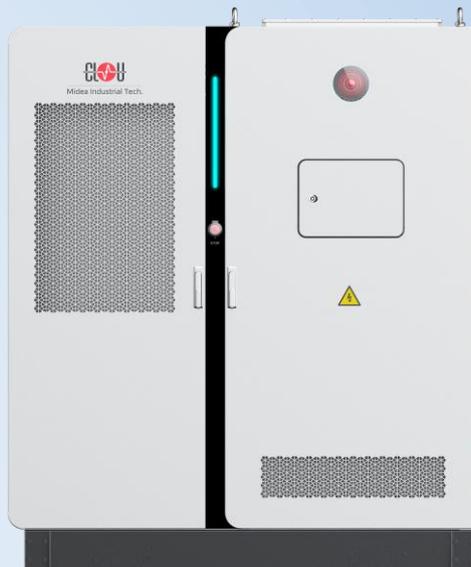


Aqua-X-261-125-2h-IEC

Liquid-cooled C&I PV and Energy Storage Cabinet



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

Investment savings

- Modular design with multi-channel MPPT integration saves installation and commissioning time by 50%
- Intelligent temperature control, system temperature difference $\leq 5^{\circ}\text{C}$

Ultimate performance

- Supports grid-connected and off-grid multi-scenario applications to ensure power continuity
- Innovative BMS management extends battery life by 2 years and increases discharge capacity by 10% throughout its lifecycle

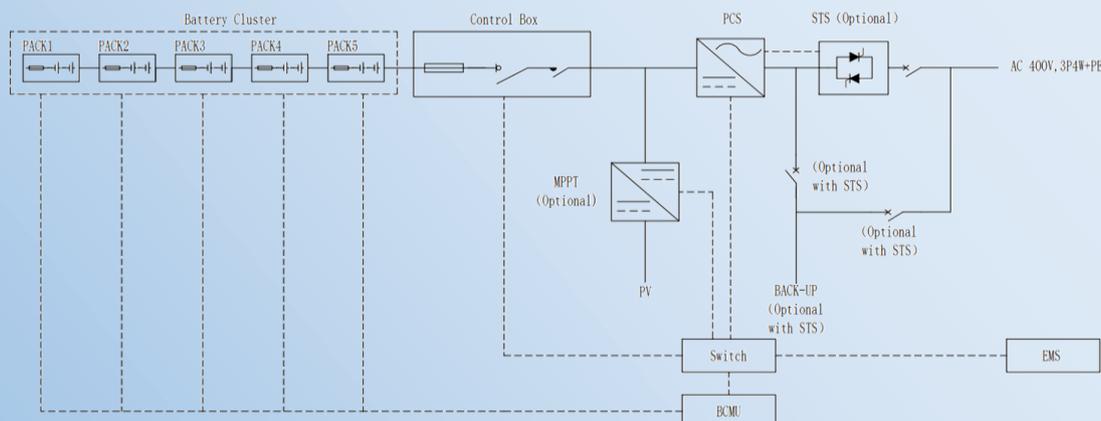
Ultimate safety

- AI global perception, accurately identifying thermal runaway risks, and fault isolation within milliseconds
- Full-stack fire protection chain to prevent explosions

Smart operation and maintenance

- AI smart cloud platform, status information pushed in seconds
- Precise remote fault analysis reduces on-site maintenance workload by 40%

Circuit Diagram



Product Series Model	Aqua-X-261-125-2h-IEC*
DC-side parameter	
Rated system energy	261 kWh
Rated power	125 kW
Battery voltage range	702–936 V DC
Cell type	LFP 3.2 V/314 Ah
System configuration	1P260S
PV-side parameter (optional with MPPT)	
Rated power	60 kW/60 kW*2 (optional: 1/2)
Number of MPPTs	4/8
Rated current	4*45 A/2*4*45 A
Voltage range on PV-side	150–672 V DC
Full load minimum voltage on PV-side	340 V DC
Maximum open circuit voltage on PV-side	672 V DC**
AC-side parameter	
Rated output power	125 kVA
Maximum input power (optional with STS)	250 kVA
Maximum power access for important loads (optional with STS)	125 kVA
Current distortion rate	< 3% (rated power)
AC voltage harmonic	< 3% (linear load)
DC component	< 0.5% (rated current)
Rated 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)
Relative humidity	5%–95% RH (non-condensing)
Maximum operating altitude	2000 m
Ingress protection (IP) rating	IP55 (battery compartment) IP54 (equipment compartment)
Maximum efficiency for PCS	98.9%
Maximum efficiency for MPPT (optional)	99%
Maximum efficiency for STS (optional)	99.5%
On-grid and Off-grid switching time (including STS)	< 20 ms
Cooling method	Intelligent liquid cooling and forced air cooling
Cycle life	≥ 7000 cycles
Weight	≤ 3000 kg
Anti-corrosion degree	C3 (standard)

	C4 (optional)
Dimension (W x D x H)	1800 mm x 1548 mm x 2182 mm (With lifting eyes)
Fire suppression system	Smoke detector, heat detector, aerosol, horn strobe, fire hose coupling (optional), explosion-proof plate (optional)
Communication interface	Ethernet, RS485, 4G
Standard	IEC 62477-1, IEC 62109-1/-2 (Models with MPPT modules), IEC 62619, IEC 60356, UN 38.3

* From this model, we derived six models, for example:

- Aqua-E-261-125-IEC (1*PCS module)
- Aqua-EX-60-261-125-IEC (1*PCS module, 1*MPPT module)
- Aqua-EX-120-261-125-IEC (1* PCS module, 2*MPPT module)
- Aqua-ES-261-125-IEC (1* PCS module, 1*STS module)
- Aqua-EXS-60-261-125-IEC (1* PCS module, 1*STS module, 1*MPPT module)
- Aqua-EXS-120-261-125-IEC (1* PCS module, 1*STS module, 2*MPPT module)

** Actually, limited by the minimum battery voltage, the maximum open-circuit voltage for customer photovoltaics is 672V.