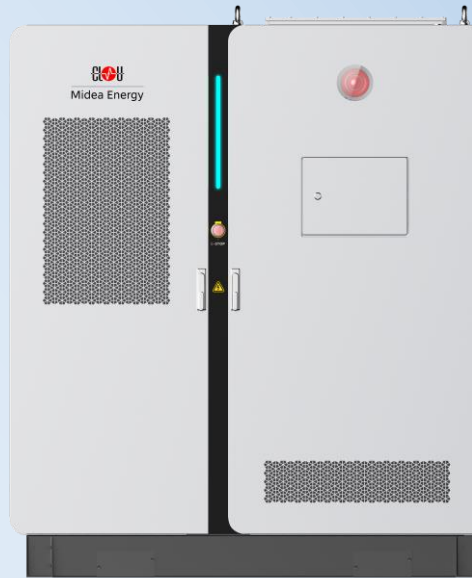


Aqua-X-261-125-2h-IEC

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

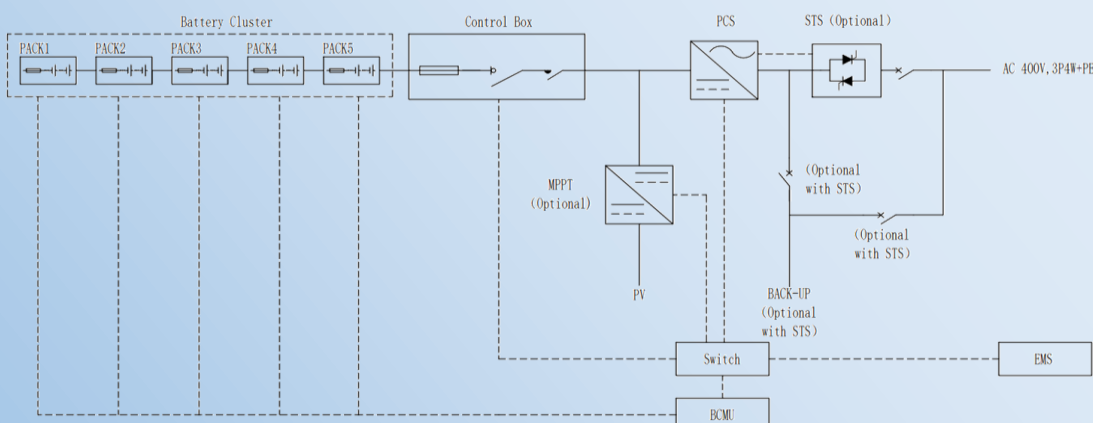
Ultimate safety

- 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 vent panel (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

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