

125kW/261kWh Liquid-cooling Outdoor Cabinet



✓ Extreme Reliability

- 5-Year Maintenance-Free:
DC-side temperature difference controlled within $\pm 1.5^{\circ}\text{C}$. System-wide single-point fault recovery in 0 seconds with full-node autonomy;
- Overload Resilience:
120% overload capability + three-phase four-leg dynamic balancing, adaptable to complex grid environments (voltage range: 380/400V $\pm 15\%$);
- Energy Efficiency Benchmark:
88% comprehensive efficiency (including auxiliary consumption), dual energy-saving modes via four-quadrant regulation and low-order harmonic mitigation;

⊕ Ultimate Safety

- Three-Tier Protection Chain:
Pre-Warning Layer: Multi-level temperature sensing + detection with millisecond-level response.
Containment Layer: PACK-level fire suppression + multi-stage fusing.
Defense Layer: Cabinet withstands 1600°C (explosion-proof & fire-resistant insulation with long-fiber alumina composite).
- Lifetime Durability: Ion migration-resistant electrical connections ensure insulation and voltage tolerance remain intact after 5 years.

🔧 Global Standards

- Full Traceability Code Management of devices (Component-Level Data Traceability)
- Flying welding+ 3D galvanometer real-time inspection (0.2s per weld, zero thermal conduction).

🏢 Integrated Excellence

- High-voltage direct power supply + dual backups for auxiliary systems, compliant with ESG standards.
- Ultra-compact 1.45 m² footprint (1MWh+ battery storage installable within a single parking space).

✓ Intelligent O&M

- Zero-Touch Capacity Expansion:
Supports parallel operation of 20 grid-tied units with decentralized autonomous network reconfiguration;
- Autonomous Control:
OTA updates with breakpoint recovery + real-time strategy deployment; self-healing capabilities eliminate manual intervention.

125kW/261kWh Liquid-cooling outdoor cabinet parameter table

Parameter	125kW/261kWh Liquid-cooling Outdoor Cabinet
DC Parameters	
Battery Capacity	261kWh
Cell Capacity	314Ah (LFP)
Battery PACK	1P260S
Rated Voltage	832VDC
DC Voltage Range	728Vdc ~ 936Vdc
AC Parameters	
Rated Power	125kW
Rated Voltage	380V/400V, -15%~10%
Connection Method	3P4W+PE
Rated Frequency	50Hz
Power Factor	-1 (Leading) ~+1 (Lagging)
Thdi	≤3% (at rated power)
Protection Functions	
AC Side	Molded Case Circuit Breaker
DC Side	Isolator Switch+Fuselsolator Switch + Fuse
Fire Protection	Aerosol + Water Fire Suppression System
Enviroment Conditions	
Operating Temperature	-30~50°C (Derating above 45°C)
Altitude	≤2000m
Relative Humidity	0~95% (Non-condensing)
Physical Characteristics	
Weight	~2.8T
Dimensions (W*H*D)	~989mm*2471.5mm*1465mm
Corrosion Resistance Level	C4 (Customizable)
Protection Rating	IP54
Others	
Cooling Method	Liquid Cooling
Communication Interface	CAN/Ethernet/485