

120kW/241 kWh Liquid-cooling Outdoor Cabinet



✓ Extreme Reliability

The battery pack features an IP67-rated design, standard C4 corrosion resistance certification, and an integrated 5-in-1 fire detection system. Its network architecture supports seamless failover (0-second switching) during any single-unit failure, guaranteeing uninterrupted system operation and eliminating service downtime risks caused by master-slave dependency.

⊕ Ultimate Safety

PACK-level fire protection with pre-installed water fire suppression interfaces, multi-level fuse protection, and flame-retardant & explosion-proof cabinet design. Incorporating station-level safety protocols, the system features dual-layer detection to ensure comprehensive electrical safety.

🔧 High-Speed Manufacturing

Utilizing flying laser welding technology to prevent heat damage to battery cells, the system incorporates a full-lifecycle traceability system, ensuring both high product quality and efficient supply chain performance.

☑ Intelligent O&M

Featuring standardized interface designs, the system supports multi-unit parallel connections for seamless capacity expansion. Multiple units form a decentralized intelligent power supply network with a fully autonomous node architecture, achieving groundbreaking device-level fault immunity. Additionally, it enables remote OTA software upgrades with real-time strategy deployment and provides boot loader breakpoint resumption for reliable updates.

☐☐ Integrated Excellence

Adopting automotive-grade design, the system supplies high-voltage power directly, replaces lead-acid batteries, and meets ESG sustainability standards. It increases integration density, reducing the footprint to just 1.45 m², and supports four-quadrant active/reactive power regulation. Compatible with grid voltages of 380/400V (-15% to +10%), it reduces low-order harmonics, enables peak shaving and valley filling, and operates autonomously, supporting both grid-tied and off-grid modes.

120kW/241kWh Liquid-cooling outdoor cabinet parameter table

Parameter	100kW/241kW Liquid-cooling Outdoor Cabinet
DC Parameters	
Battery Capacity	241kWh
Cell Capacity	314Ah (LFP)
Battery PACK	1P240S
Rated Voltage	768VDC
DC Voltage Range	672Vdc ~ 864Vdc
Charge/Discharge Rate	0.5P
AC Parameters	
Rated Power	120kW
Rated Voltage	380V/400V, -15%~10%
Connection Method	3P4W+PE
Rated Frequency	50/60Hz
Power Factor	-1 (Leading) ~+1 (Lagging)
Thdi	≤3% (at rated power)
Protection Functions	
AC Side	Molded Case Circuit Breaker
DC Side	Isolator Switch+Fuse/Isolator Switch + Fuse
Fire Protection	Novec 1230 + Water Fire Suppression System
Environment 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)	~980mm*2470mm*1495mm
Corrosion Resistance Level	C3 (Customizable)
Protection Rating	IP54
Others	
Cooling Method	Liquid Cooling
Communication Interface	CAN/Ethernet/485