

Liquid-Cooled C&I ESS Cabinet

LPR-ESL-125261H

125kW/261kW

LPR-ESL-125261H is a 125kW/261kWh liquid-cooled C&I ESS cabinet integrating battery, BMS, and PCS for scalable energy management.

Recommended Applications

- Icon: House with lightning bolt. Ideal for C&I peak shaving
- Icon: Solar panel. Solar Self-Consumption
- Icon: Battery. Backup power
- Icon: Microgrid. Microgrids, and grid-connected or off-grid energy storage projects



Features

Liquid Cooling
Liquid cooling improves temperature uniformity across the battery system, supporting stable performance, higher operating consistency, and longer service life in demanding C&I environments.

All-in-One Design
Battery, BMS, and PCS are integrated into one outdoor cabinet, reducing installation complexity and simplifying project deployment for commercial storage sites.

125kW Output
The integrated PCS delivers 125kW power with up to 138kW maximum output, supporting peak shaving, backup loads, and flexible energy dispatch.

261kWh Capacity
A 261kWh LFP battery system provides meaningful backup duration and daily cycling capacity for factories, commercial buildings, farms, and distributed energy projects.

Smart Operation
4G, CAN, and RS485 communication support remote monitoring, system coordination, and easier commissioning across grid-connected or off-grid applications.

Outdoor Reliability
IP55 protection, optional C4/C5 corrosion resistance, integrated fire protection, and wide temperature operation support dependable outdoor C&I deployment.

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Parameter	LPR-ESL-125261H
Product Type	Liquid-cooled C&I ESS cabinet
System Coupling	AC-coupled energy storage system
Rated Power	125kW
Maximum Power	138kW
Rated Energy	261kWh
Battery Rated Voltage	832V
Battery Voltage Range	728-936V
Battery Type	LFP
Battery Capacity	314Ah
Battery Pack Configuration	1P52S x 5
Battery Life Cycle	6000 cycles, 0.5C, 80% SOH
Charge/Discharge Rate	0.5C
Cooling Method	Liquid Cooling
PCS Type	Hybrid Inverter
PCS Power	125kW
Maximum Current	200A
Maximum Efficiency	98.5%
Rated AC Voltage	400V
AC Voltage Range	+/-15%
Rated AC Frequency	50/60Hz
Wiring Method	3P+N+PE
Current Distortion Rate	THDI <3% at rated power
Power Factor	>=0.99 / -1 to +1
Energy Cycle Efficiency	>=90%
IP Rating	IP55
Corrosion Resistance	C3 standard, C4/C5 optional
Fire Protection	Aerosol / Perfluorohexanone optional
Operating Altitude	3000m, derating above 2000m
Relative Humidity	0-95%, non-condensing
Operating Temperature	-20°C to +50°C
Communication	4G / CAN / RS485
Dimensions	1155*1415*2400mm
Weight	2500kg
Warranty	5 years
System Integration	Battery, BMS, and PCS integrated in one cabinet
Supported Operation	Grid-connected / off-grid systems

- Specifications are subject to change without prior notice.
- Product images are for reference only. Actual product appearance may vary depending on configuration.
- Battery compatibility should be confirmed according to BMS protocol and system configuration.
- PV string design must follow the maximum PV open-circuit voltage, MPPT voltage range and maximum PV input current limits.
- Parallel system design should use matching inverter models, shared battery bank and proper AC/DC protection devices.