

C&I Energy Storage Cabinet

LPR-ESA-125261J

125kW/261kW

LPR-ESA-125261J is a 125kW / 261kWh AC-coupled C&I energy storage cabinet for peak shaving, backup power, and solar storage integration.

Recommended Applications

- Recommended for factories
- Commercial Buildings
- Industrial parks, and distributed solar storage projects requiring integrated PCS and battery capacity



Features

Integrated PCS
Built-in 125kW PCS simplifies AC-coupled system deployment, reducing external equipment requirements and helping project teams shorten commissioning work.

261kWh Capacity
The 261kWh cabinet supports meaningful energy shifting for C&I users, helping reduce peak demand pressure and improve solar self-consumption.

Air-Cooled Design
Air-cooled thermal management supports practical outdoor cabinet deployment with simpler maintenance requirements for commercial and industrial applications.

Outdoor Ready
IP54 protection, wide operating temperature range, and fixed outdoor installation design help the system adapt to demanding project environments.

Grid Flexible
230V, 380V, and 400V grid voltage compatibility with 3L-N-PE wiring supports a wider range of commercial low-voltage AC applications.

Smart Expansion
Modbus TCP communication and modular cabinet architecture support energy management, monitoring, and expansion for larger C&I storage projects.

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Parameter	LPR-ESA-125261J
Product Overview	
Product Model	LPR-ESA-125261J
System Type	AC-coupled C&I energy storage cabinet
Cooling Method	Air cooling
DC Side Parameters	
Cell Type	3.2V / 314Ah LFP
Module Configuration	52.2kWh / 1P52S
System Configuration	261kWh / 1P260S
Nominal Battery Voltage	768V
Battery Voltage Range	728V to 923V
Maximum Discharge Current	0.5Cp @ 25°C
System Parameters	
Charge / Discharge Rate	0.5C @ 25°C
Rated Output Power	125kW
Rated Grid Frequency	50 / 60Hz
Dimensions (W x D x H)	1000 x 1400 x 2400mm
Weight	2.7t
Protection Rating	IP54
Working Altitude	≤2000m
Installation Environment	Outdoor, fixed installation
Rated Grid Voltage	230V / 380V / 400V
AC Wiring Method	3L-N-PE
Communication	Modbus TCP
Operating Temperature	-30°C to 55°C
Storage Temperature	-35°C to 60°C
Operating Humidity	≤85%
Certifications	IEC 62619; IEC 63056; IEC/EN 61000-6-2/-4; IEC/EN 62477-1; GB/T 36276
PCS AC Side Parameters	
Voltage Deviation	-15% to +15%
Power Factor	0.99
Power Factor Range	-1 to +1
Current THD	2% rated current
Maximum Efficiency	≥98.5%

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.