LPESS | Beyond Sunlight. Proven Power

LPR-CHVA-(154-768)314CL16

48.2kW-241.2kW

- LPR-CHVA-(154-768)314CL16 is a high-voltage outdoor cabinet battery system for C&I solar storage, backup power, and hybrid energy projects. With 48.2kWh to 241.2kWh capacity options, air-cooled operation, and cabinet-based deployment, it supports commercial buildings, industrial sites, and distributed energy applications requiring protected outdoor installation.



Recommended Applications

- Recommended For C&I Solar Storage
- Outdoor Energy Storage Sites
- Industrial Backup Power
- Peak Shaving, And Hybrid Solar Systems Requiring Scalable High-Voltage Capacity

Features

Outdoor Cabinet
Cabinet-based construction supports outdoor energy storage deployment, helping reduce dependence on dedicated indoor battery rooms for commercial and industrial projects.

Air-Cooled Stability
Air-cooled operation supports practical thermal management for C&I environments while keeping the system structure simple for installation and service.

Wide Capacity Range
48.2kWh to 241.2kWh options help match different project sizes, from compact commercial backup to larger solar storage applications.

Service Access
Front-door cabinet access helps simplify inspection, wiring, and maintenance, making daily operation more convenient for site owners and technicians.

High-Voltage Platform
154V to 768V configurations support efficient DC-side integration with compatible hybrid inverters and commercial energy storage systems.

Smart Communication
RS485, RS232, and CAN interfaces support monitoring, control, and integration with compatible inverters, controllers, and energy management platforms.

LPR-CHVA-(154-768)314CL16

Parameter	LPR-CHVA-154314CL16	LPR-CHVA-205314CL16	LPR-CHVA-256314CL16	LPR-CHVA-307314CL16	LPR-CHVA-358314CL16
Product Series	LPR-CHVA-(154-768)314CL16				
Battery System Type	High-voltage outdoor cabinet battery system				
Installation Type	Outdoor cabinet installation				
Outdoor Cabinet Structure	Integrated outdoor cabinet structure				
Cabinet Access	Front-door service access				
Battery Module	51.2V 314Ah LiFePO4 battery module				
Battery Module Dimensions	483 x 245 x 792mm				
Module Quantity	3 modules in series	4 modules in series	5 modules in series	6 modules in series	7 modules in series
Nominal Voltage	153.6V	204.8V	256V	307.2V	358.4V
Nominal Capacity	314Ah				
Nominal Energy	48.2kWh	64.3kWh	80.4kWh	96.5kWh	112.5kWh
Discharge Cut-off Voltage	120V	160V	200V	240V	280V
Charge Cut-off Voltage	175.2V	233.6V	292.0V	350.4V	408.8V
Recommended Charge/Discharge Current	100A				
Max Charge/Discharge Current	160A				
Communication	RS485 / RS232 / CAN				
Cooling Method	Air cooling				
Working Temperature	Charge: 0 to 50°C; Discharge: -10 to 50°C				
Transport / Storage Temperature	-20 to 60°C				
Design Life	15+ years				
Cycle Life	>6000 cycles at 0.5C/0.5C, 80% DOD				
System Expansion	Up to 16 battery modules in series				
Certifications	CE / IEC / UL / UN38.3 / MSDS / RoHS				

Parameter	LPR-CHVA-410314CL16	LPR-CHVA-461314CL16	LPR-CHVA-512314CL16	LPR-CHVA-563314CL16
Product Series	LPR-CHVA-(154-768)314CL16			
Battery System Type	High-voltage outdoor cabinet battery system			
Installation Type	Outdoor cabinet installation			
Outdoor Cabinet Structure	Integrated outdoor cabinet structure			
Cabinet Access	Front-door service access			
Battery Module	51.2V 314Ah LiFePO4 battery module			
Battery Module Dimensions	483 x 245 x 792mm			
Module Quantity	8 modules in series	9 modules in series	10 modules in series	11 modules in series
Nominal Voltage	409.6V	460.8V	512V	563.2V
Nominal Capacity	314Ah			
Nominal Energy	128.6kWh	144.7kWh	160.8kWh	176.8kWh
Discharge Cut-off Voltage	320V	360V	400V	440V
Charge Cut-off Voltage	467.2V	525.6V	584.0V	642.4V
Recommended Charge/Discharge Current	100A			
Max Charge/Discharge Current	160A			
Communication	RS485 / RS232 / CAN			
Cooling Method	Air cooling			
Working Temperature	Charge: 0 to 50°C; Discharge: -10 to 50°C			
Transport / Storage Temperature	-20 to 60°C			
Design Life	15+ years			
Cycle Life	>6000 cycles at 0.5C/0.5C, 80% DOD			
System Expansion	Up to 16 battery modules in series			
Certifications	CE / IEC / UL / UN38.3 / MSDS / RoHS			

Parameter	LPR-CHVA-614314CL16	LPR-CHVA-666314CL16	LPR-CHVA-717314CL16	LPR-CHVA-768314CL16
Product Series	LPR-CHVA-(154-768)314CL16			
Battery System Type	High-voltage outdoor cabinet battery system			
Installation Type	Outdoor cabinet installation			
Outdoor Cabinet Structure	Integrated outdoor cabinet structure			
Cabinet Access	Front-door service access			
Battery Module	51.2V 314Ah LiFePO4 battery module			
Battery Module Dimensions	483 x 245 x 792mm			
Module Quantity	12 modules in series	13 modules in series	14 modules in series	15 modules in series
Nominal Voltage	614.4V	665.6V	716.8V	768V
Nominal Capacity	314Ah			
Nominal Energy	192.9kWh	209.0kWh	225.1kWh	241.2kWh
Discharge Cut-off Voltage	480V	520V	560V	600V
Charge Cut-off Voltage	700.8V	759.2V	817.6V	876.0V
Recommended Charge/Discharge Current	100A			
Max Charge/Discharge Current	160A			
Communication	RS485 / RS232 / CAN			
Cooling Method	Air cooling			
Working Temperature	Charge: 0 to 50°C; Discharge: -10 to 50°C			
Transport / Storage Temperature	-20 to 60°C			
Design Life	15+ years			
Cycle Life	>6000 cycles at 0.5C/0.5C, 80% DOD			
System Expansion	Up to 16 battery modules in series			
Certifications	CE / IEC / UL / UN38.3 / MSDS / RoHS			

- 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.

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