

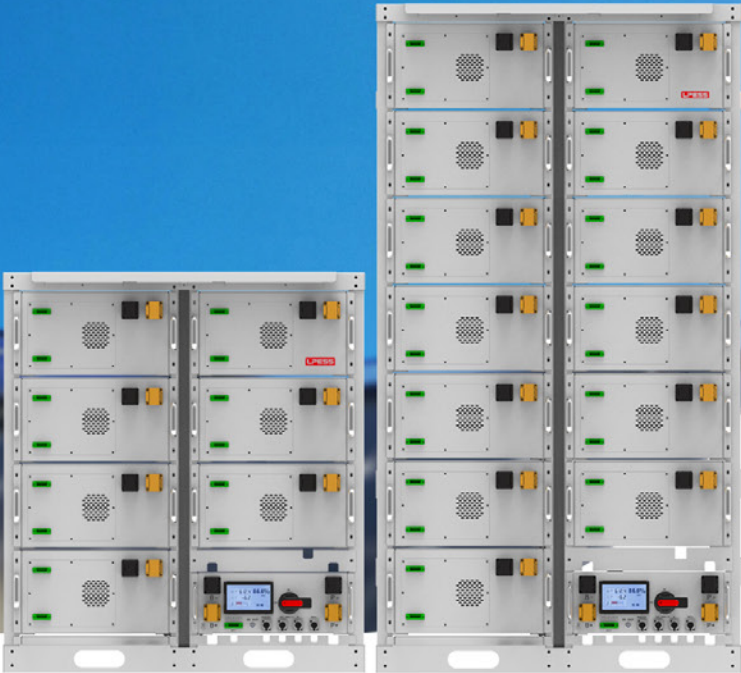
LPR-CHVA-(154-768)314RL16

48.2kW-241.2kW

- LPR-CHVA-(154-768)314RL16 is a high-voltage rack battery system for C&I solar storage, backup power, and hybrid energy applications. With 48.2kWh to 241.2kWh capacity options, air-cooled operation, and modular rack installation, it supports flexible system configuration for commercial buildings, industrial sites, and distributed energy projects.

Recommended Applications

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



Features

Wide Capacity Range
48.2kWh to 241.2kWh capacity options help match different C&I project sizes, from small commercial backup to larger solar storage systems.

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

Air-Cooled Stability
Air-cooled operation supports dependable performance in commercial environments while keeping installation, maintenance, and system structure practical.

Modular Rack Design
The rack-based structure simplifies transport, positioning, service access, and future capacity planning for equipment rooms and C&I storage layouts.

Long Cycle Life
Over 6000 cycles under rated test conditions support daily charge-discharge operation and long-term use in solar storage and backup applications.

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

LPR-CHVA-(154-768)314RL16

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Parameter	LPR-CHVA-154314RL16	LPR-CHVA-205314RL16	LPR-CHVA-256314RL16	LPR-CHVA-307314RL16	LPR-CHVA-358314RL16
Product Model	LPR-CHVA-154314RL16	LPR-CHVA-205314RL16	LPR-CHVA-256314RL16	LPR-CHVA-307314RL16	LPR-CHVA-358314RL16
Battery System Type	High-voltage rack battery system				
Battery Module	51.2V 314Ah LiFePO4 module				
Module Quantity	3 modules	4 modules	5 modules	6 modules	7 modules
Nominal Voltage	153.6V	204.8V	256.0V	307.2V	358.4V
Nominal Capacity	314Ah				
Nominal Energy	48.2kWh	64.3kWh	80.4kWh	96.5kWh	112.5kWh
Discharge Cut-off Voltage	132V	176V	220V	264V	308V
Charge Cut-off Voltage	170.4V	227.2V	284V	340.8V	397.6V
Recommended Charge/Discharge Current	100A				
Max. Charge/Discharge Current	160A				
Communication	RS485 / RS232 / CAN				
Cooling Method	Air cooling				
Working Temperature	Charge: 0°C to 50°C; Discharge: -10°C to 50°C				
Transport or Storage Temperature	-20°C to 60°C				
Rack Dimensions	550 x 780 x 1190mm	550 x 780 x 1440mm	550 x 780 x 1690mm	1090 x 780 x 1190mm	
Approx. Weight	408kg	534kg	660kg	796kg	912kg
Design Life	15+ years				
Cycle Life	>6000 cycles at 0.5C/0.5C, 80% DOD				
System Expansion	Supports up to 16 modules in series				
Certifications	CE / IEC / UL / UN38.3 / MSDS / ROHS				

Parameter	LPR-CHVA-410314RL16	LPR-CHVA-461314RL16	LPR-CHVA-512314RL16	LPR-CHVA-563314RL16
Product Model	LPR-CHVA-410314RL16	LPR-CHVA-461314RL16	LPR-CHVA-512314RL16	LPR-CHVA-563314RL16
Battery System Type	High-voltage rack battery system			
Battery Module	51.2V 314Ah LiFePO4 module			
Module Quantity	8 modules	9 modules	10 modules	11 modules
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	352V	396V	440V	484V
Charge Cut-off Voltage	454.4V	511.2V	568V	624.8V
Recommended Charge/Discharge Current	100A			
Max. Charge/Discharge Current	160A			
Communication	RS485 / RS232 / CAN			
Cooling Method	Air cooling			
Working Temperature	Charge: 0°C to 50°C; Discharge: -10°C to 50°C			
Transport or Storage Temperature	-20°C to 60°C			
Rack Dimensions	1090 x 780 x 1440mm		1090 x 780 x 1690mm	
Approx. Weight	1048kg	1164kg	1300kg	1416kg
Design Life	15+ years			
Cycle Life	>6000 cycles at 0.5C/0.5C, 80% DOD			
System Expansion	Supports up to 16 modules in series			
Certifications	CE / IEC / UL / UN38.3 / MSDS / ROHS			

Parameter	LPR-CHVA-614314RL16	LPR-CHVA-666314RL16	LPR-CHVA-717314RL16	LPR-CHVA-768314RL16
Product Model	LPR-CHVA-614314RL16	LPR-CHVA-666314RL16	LPR-CHVA-717314RL16	LPR-CHVA-768314RL16
Battery System Type	High-voltage rack battery system			
Battery Module	51.2V 314Ah LiFePO4 module			
Module Quantity	12 modules	13 modules	14 modules	15 modules
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	528V	572V	616V	660V
Charge Cut-off Voltage	681.6V	738.4V	795.2V	852V
Recommended Charge/Discharge Current	100A			
Max. Charge/Discharge Current	160A			
Communication	RS485 / RS232 / CAN			
Cooling Method	Air cooling			
Working Temperature	Charge: 0°C to 50°C; Discharge: -10°C to 50°C			
Transport or Storage Temperature	-20°C to 60°C			
Rack Dimensions	1090 x 780 x 1940mm		1090 x 780 x 2190mm	
Approx. Weight	1552kg	1668kg	1804kg	1920kg
Design Life	15+ years			
Cycle Life	>6000 cycles at 0.5C/0.5C, 80% DOD			
System Expansion	Supports up to 16 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.