

LPR-CHVA-(256-717)314RN16

16.08kW

LPR-CHVA-(256-717)314RN16 is a rack-mounted high-voltage battery system for commercial hybrid solar storage, backup power, and scalable energy expansion.

Recommended Applications

- Designed For Manufacturing Sites
- Commercial Buildings, And Microgrid Projects Requiring Reliable Backup
- Peak Shaving, And Hybrid Solar Energy Storage.



Features

Scalable Capacity
Modular 16kWh battery units allow flexible system expansion from medium commercial backup to larger C&I energy storage configurations.

High-Voltage Design
The high-voltage battery architecture supports efficient energy transfer, lower current stress, and better matching with commercial hybrid inverter systems.

Smart BMS
Integrated battery management monitors voltage, current, temperature, SOC, alarms, and balancing to support stable operation and long-term battery health.

Hybrid Ready
CAN and RS485 communication enable integration with compatible high-voltage hybrid inverters for solar storage, grid backup, and mixed energy applications.

Air-Cooled Stability
Built-in air cooling supports steady thermal performance during charge and discharge, helping maintain reliability in demanding commercial operating conditions.

Rack Installation
The rack-mounted structure simplifies indoor installation, maintenance access, and system expansion for project-based commercial energy storage deployment.

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Parameter	LPR-CHVA-256314RN16	LPR-CHVA-307314RN16	LPR-CHVA-358314RN16	LPR-CHVA-410314RN16	LPR-CHVA-461314RN16
Battery Module Quantity	5 modules	6 modules	7 modules	8 modules	9 modules
Cell Chemistry	LiFePO4				
Module Energy	16.08 kWh				
Module Nominal Voltage	51.2 V				
Module Capacity	314 Ah				
Module Dimension (W/D/H)	771 x 550 x 200 mm				
Module Weight	112 kg				
System Nominal Voltage	256 V	307.2 V	358.4 V	409.6 V	460.8 V
System Operating Voltage	232-288 V	278.4-345.6 V	324.8-403.2 V	371.2-460.8 V	417.6-518.4 V
System Energy	80.38 kWh	96.46 kWh	112.54 kWh	128.61 kWh	144.69 kWh
Usable Energy at 90% DOD	72.34 kWh	86.81 kWh	101.29 kWh	115.75 kWh	130.22 kWh
Max. Power	51.2 kW	61.44 kW	71.68 kW	81.92 kW	92.16 kW
Recommended Charge / Discharge Current	160 A				
Max. Charge / Discharge Current	200 A				
Cooling Method	Air cooling				
Communication	CAN, RS485, WiFi				
Parallel Capability	Up to 4 sets				
Installation Method	Indoor rack mounting				
IP Rating	IP20				
Working Temperature	Discharge: -20°C to 60°C; Charge: 0°C to 60°C				
Storage Temperature	0°C to 35°C				
Operating Humidity	≤85% RH				
Storage Humidity	≤85% RH				
Operating Altitude	<2000 m				
Recommended Depth of Discharge	90% DOD				
Cycle Life	≥8000 cycles				
Warranty	5 years				
Certification	CE, UN38.3, MSDS				
System Dimension (W/D/H)	776 x 577 x 1505 mm	776 x 577 x 1725 mm	1552 x 577 x 1065 mm	1552 x 577 x 1285 mm	
System Weight	630 kg	746 kg	862 kg	1028 kg	1144 kg
BMS Functions	Voltage, current, temperature, SOC, alarm, balancing and protection management				
Protection Functions	Overcharge, over-discharge, overcurrent, high temperature and low temperature protection				
Display and Monitoring	Touch screen, status indicators, SOC display and WiFi monitoring				
Hybrid Inverter Compatibility	Compatible with high-voltage hybrid inverter systems via CAN / RS485 communication				
Application	Commercial backup power, hybrid solar storage, peak shaving and microgrid energy storage				

Parameter	LPR-CHVA-512314RN16	LPR-CHVA-563314RN16	LPR-CHVA-614314RN16	LPR-CHVA-666314RN16	LPR-CHVA-717314RN16
Battery Module Quantity	10 modules	11 modules	12 modules	13 modules	14 modules
Cell Chemistry	LiFePO4				
Module Energy	16.08 kWh				
Module Nominal Voltage	51.2 V				
Module Capacity	314 Ah				
Module Dimension (W/D/H)	771 x 550 x 200 mm				
Module Weight	112 kg				
System Nominal Voltage	512 V	563.2 V	614.4 V	665.6 V	716.8 V
System Operating Voltage	464-576 V	510.4-633.6 V	556.8-691.2 V	603.2-748.8 V	649.6-806.4 V
System Energy	160.77 kWh	176.84 kWh	192.92 kWh	209 kWh	225.08 kWh
Usable Energy at 90% DOD	144.69 kWh	159.16 kWh	173.63 kWh	188.10 kWh	202.57 kWh
Max. Power	102.4 kW	112.64 kW	122.88 kW	133.12 kW	143.36 kW
Recommended Charge / Discharge Current	160 A				
Max. Charge / Discharge Current	200 A				
Cooling Method	Air cooling				
Communication	CAN, RS485, WiFi				
Parallel Capability	Up to 4 sets				
Installation Method	Indoor rack mounting				
IP Rating	IP20				
Working Temperature	Discharge: -20°C to 60°C; Charge: 0°C to 60°C				
Storage Temperature	0°C to 35°C				
Operating Humidity	≤85% RH				
Storage Humidity	≤85% RH				
Operating Altitude	<2000 m				
Recommended Depth of Discharge	90% DOD				
Cycle Life	≥8000 cycles				
Warranty	5 years				
Certification	CE, UN38.3, MSDS				
System Dimension (W/D/H)	1552 x 577 x 1505 mm		1552 x 577 x 1725 mm		2328 x 577 x 1285 mm
System Weight	1260 kg	1376 kg	1492 kg	1588 kg	1724 kg
BMS Functions	Voltage, current, temperature, SOC, alarm, balancing and protection management				
Protection Functions	Overcharge, over-discharge, overcurrent, high temperature and low temperature protection				
Display and Monitoring	Touch screen, status indicators, SOC display and WiFi monitoring				
Hybrid Inverter Compatibility	Compatible with high-voltage hybrid inverter systems via CAN / RS485 communication				
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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 wiring 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.