

LPR-CHVA-(256-717)314CN16

16.08kW

- LPR-CHVA-(256-717)314CN16 is an outdoor cabinet high-voltage battery system for commercial hybrid solar storage, backup power, and scalable energy expansion.

Recommended Applications

- Designed For Factories
- Peak Shaving, And Hybrid Solar Storage.
- Commercial Sites, And Outdoor Microgrid Projects Requiring Weather-Protected Backup

Features

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

- Outdoor Cabinet**
IP55 cabinet protection supports outdoor project deployment, reducing shelter requirements and improving durability in exposed commercial environments.

- High-Voltage Design**
The high-voltage 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 with WiFi monitoring support hybrid solar storage, grid backup, and mixed energy applications.

- Fan-Cooled Stability**
Integrated fan cooling supports stable operation from -10°C to 55°C, helping maintain performance in demanding commercial environments.

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Parameter	LPR-CHVA-256314CN16	LPR-CHVA-307314CN16	LPR-CHVA-358314CN16	LPR-CHVA-410314CN16	LPR-CHVA-461314CN16
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	118 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	Fan cooling				
Communication	CAN, RS485, WiFi monitoring				
Parallel Capability	Up to 4 sets				
Installation Method	Outdoor cabinet mounting				
Cabinet Protection Rating	IP55				
Working Temperature	-10°C to 55°C				
Storage Temperature	0°C to 35°C				
Operating Humidity	5% to 95% RH				
Operating Altitude	≤2000 m				
Recommended Depth of Discharge	90% DOD				
Cycle Life	≥8000 cycles				
Warranty	5+5 years				
Certification	CE, UN38.3, MSDS				
System Dimension (W/D/H)	610 x 734 x 1430 mm	610 x 734 x 1650 mm	1220 x 734 x 990 mm	1220 x 734 x 1210 mm	1220 x 734 x 1210 mm
System Weight	612 kg	730 kg	848 kg	966 kg	1084 kg
BMS Functions	Voltage, current, temperature, SOC, alarm, balancing and protection management				
Protection Functions	Overcharge, over-discharge, overcurrent, high temperature, low temperature and hardware 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	Outdoor commercial backup power, hybrid solar storage, peak shaving and microgrid energy storage				

Parameter	LPR-CHVA-512314CN16	LPR-CHVA-563314CN16	LPR-CHVA-614314CN16	LPR-CHVA-666314CN16	LPR-CHVA-717314CN16
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	118 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	Fan cooling				
Communication	CAN, RS485, WiFi monitoring				
Parallel Capability	Up to 4 sets				
Installation Method	Outdoor cabinet mounting				
Cabinet Protection Rating	IP55				
Working Temperature	-10°C to 55°C				
Storage Temperature	0°C to 35°C				
Operating Humidity	5% to 95% RH				
Operating Altitude	≤2000 m				
Recommended Depth of Discharge	90% DOD				
Cycle Life	≥8000 cycles				
Warranty	5+5 years				
Certification	CE, UN38.3, MSDS				
System Dimension (W/D/H)	1220 x 734 x 1430 mm		1220 x 734 x 1650 mm		1830 x 734 x 1210 mm
System Weight	1202 kg	1320 kg	1438 kg	1556 kg	1674 kg
BMS Functions	Voltage, current, temperature, SOC, alarm, balancing and protection management				
Protection Functions	Overcharge, over-discharge, overcurrent, high temperature, low temperature and hardware 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	Outdoor commercial backup power, hybrid solar storage, peak shaving and microgrid energy storage				

- 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.
- Reseller system design should use matching inverter models, shared battery bank and proper AC/DC protection devices.