

LPR-CHVA-(205-768)314CH16

64kW-241.2kW

LPR-CHVA-(205-768)314CH16 is a 64-241kWh high-voltage outdoor battery cabinet series for C&I solar storage, backup power, and scalable PCS integration.

Recommended Applications

- Farms
- Ideal For Commercial Buildings
- Factories, And Distributed Energy Sites Requiring Outdoor High-Voltage Battery Storage From 64kWh To 241kWh.

Features

LFP Safety

Lithium iron phosphate chemistry improves thermal stability and long-term safety, giving commercial users a dependable battery platform for daily cycling and backup operation.

Modular Capacity

The cabinet uses 16kWh battery modules in series, allowing capacity selection from 64kWh to 241kWh for different project scales.

High-Voltage Ready

The 204.8V to 768V platform helps match a wider range of C&I PCS and hybrid storage systems with efficient power conversion.

Outdoor Protection

IP55 cabinet protection, corrosion-resistant options, and integrated fire protection support reliable outdoor use in commercial and industrial environments.

Smart Communication

RS485, CAN, and 4G communication options support system monitoring, PCS integration, remote operation, and easier project commissioning.

Long Service

6000-cycle battery design, 90% usable energy, 10-year design life, and 5-year warranty help reduce lifecycle cost for customers.

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Parameter	LPR-CHVA-205314CH16	LPR-CHVA-256314CH16	LPR-CHVA-307314CH16	LPR-CHVA-358314CH16	LPR-CHVA-410314CH16	LPR-CHVA-461314CH16
Nominal Energy	64.3 kWh	80.4 kWh	96.5 kWh	112.5 kWh	128.6 kWh	144.7 kWh
Module Quantity	4 modules	5 modules	6 modules	7 modules	8 modules	9 modules
Nominal Voltage	204.8V	256V	307.2V	358.4V	409.6V	460.8V
Voltage Range	182.4-227.2V	228-284V	273.6-340.8V	319.2-397.6V	364.8-454.4V	410.4-511.2V
Battery Type	LFP					
Cell Capacity	314Ah					
Battery Module	51.2V314Ah / 16.0768kWh					
Usable Energy	57.9 kWh	72.3 kWh	86.8 kWh	101.3 kWh	115.8 kWh	130.2 kWh
Depth of Discharge	90% DoD					
Max. Charge/Discharge Rate	0.5P					
Max. Charge/Discharge Current	157A					
Cooling Method	Air Cooling					
Communication	RS485 / CAN / 4G					
Optional Communication	Bluetooth Optional					
IP Rating	IP55					
Protection Class	Class I					
Corrosion Resistance	C3 standard, C4/C5 optional					
Fire Protection	Aerosol + Water Fire Protection Optional					
Operating Temperature	-20°C to +50°C					
Operating Altitude	3000m, derating above 2000m					
Relative Humidity	0-95%, non-condensing					
Cycle Life	>=6000 cycles @25°C					
Design Life	10 years+					
Warranty	5 years					
Compatible Systems	Deye, Growatt, Solis, ATESS, Megarevo, Sinexcel					
Certification	CE / IEC / UN38.3 / MSDS					
Dimensions	540*1196*1562mm		540*1200*2054mm			972*1350*1562mm
Weight	726kg		1008kg			1487kg

Parameter	LPR-CHVA-512314CH16	LPR-CHVA-563314CH16	LPR-CHVA-614314CH16	LPR-CHVA-666314CH16	LPR-CHVA-717314CH16	LPR-CHVA-768314CH16
Nominal Energy	160.8 kWh	176.8 kWh	192.9 kWh	209.0 kWh	225.1 kWh	241.2 kWh
Module Quantity	10 modules	11 modules	12 modules	13 modules	14 modules	15 modules
Nominal Voltage	512V	563.2V	614.4V	665.6V	716.8V	768V
Voltage Range	456-568V	501.6-624.8V	547.2-681.6V	592.8-738.4V	638.4-795.2V	684-852V
Battery Type	LFP					
Cell Capacity	314Ah					
Battery Module	51.2V314Ah / 16.0768kWh					
Usable Energy	144.7 kWh	159.2 kWh	173.6 kWh	188.1 kWh	202.6 kWh	217.0 kWh
Depth of Discharge	90% DoD					
Max. Charge/Discharge Rate	0.5P					
Max. Charge/Discharge Current	157A					
Cooling Method	Air Cooling					
Communication	RS485 / CAN / 4G					
Optional Communication	Bluetooth Optional					
IP Rating	IP55					
Protection Class	Class I					
Corrosion Resistance	C3 standard, C4/C5 optional					
Fire Protection	Aerosol + Water Fire Protection Optional					
Operating Temperature	-20°C to +50°C					
Operating Altitude	3000m, derating above 2000m					
Relative Humidity	0-95%, non-condensing					
Cycle Life	>=6000 cycles @25°C					
Design Life	10 years+					
Warranty	5 years					
Compatible Systems	Deye, Growatt, Solis, ATESS, Megarevo, Sinexcel					
Certification	CE / IEC / UN38.3 / MSDS					
Dimensions			1029*1350*2154mm			1029*1350*2400mm
Weight			1913kg			2318kg

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.