LPESS | Beyond Sunlight. Proven Power

LPR-CHVA-(230-845)314CN24

24.12kW

- LPR-CHVA-(230-845)314CN24 is an outdoor cabinet high-voltage battery system for commercial hybrid solar storage, backup power, and scalable energy expansion.

Recommended Applications

- Built For C&I Sites
- Manufacturing facilities, and microgrids needing weather-protected storage
- Peak shaving, and backup power

Features

Outdoor Cabinet
IP54 enclosure protection supports outdoor commercial deployment, helping simplify placement where indoor battery rooms are limited or unavailable.

Active Cooling
Air conditioner and fan cooling help stabilize cabinet temperature, supporting dependable operation in demanding commercial energy-storage environments.

Higher Module Energy
24kWh battery modules reduce module count while supporting larger commercial storage capacity in a cleaner integrated cabinet configuration.

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

Scalable Capacity
Flexible 3-11 module configurations cover C&I storage projects from 72kWh to 265kWh with room for phased capacity planning.

Hybrid Ready
CAN and RS485 communication support integration with high-voltage hybrid inverter systems for solar storage, grid backup, and mixed energy applications.

LPR-CHVA-(230-845)314CN24

Parameter	LPR-CHVA-230314CN24	LPR-CHVA-307314CN24	LPR-CHVA-384314CN24	LPR-CHVA-461314CN24	LPR-CHVA-538314CN24
Battery Module Quantity	3 modules	4 modules	5 modules	6 modules	7 modules
Cell Chemistry	LiFePO4				
Module Energy	24.12 kWh				
Module Nominal Voltage	76.8 V				
Module Capacity	314 Ah				
Module Dimension (W/D/H)	440 x 1063 x 242 mm				
Module Weight	177 kg				
System Nominal Voltage	230.4 V	307.2 V	384 V	460.8 V	537.6 V
System Operating Voltage	208.8-259.2 V	278.4-345.6 V	348-432 V	417.6-518.4 V	487.2-604.8 V
System Energy	72.35 kWh	96.46 kWh	120.58 kWh	144.69 kWh	168.81 kWh
Usable Energy at 90% DOD	65.11 kWh	86.81 kWh	108.52 kWh	130.22 kWh	151.93 kWh
Max. Power	46.08 kW	61.44 kW	76.8 kW	92.16 kW	107.52 kW
Recommended Charge / Discharge Current	160 A				
Max. Charge / Discharge Current	200 A				
Cooling Method	Air conditioner + fan cooling				
Communication	CAN, RS485				
Parallel Capability	Up to 4 sets				
Installation Method	Outdoor integrated cabinet installation				
IP Rating	IP54				
Working Temperature	-20°C to 60°C				
Storage Temperature	0°C to 35°C				
Operating Humidity	5%-85% RH				
Operating Altitude	<2000 m				
Recommended Depth of Discharge	90% DOD				
Cycle Life	>=8000 cycles				
Warranty	5+5 years				
Certification	CE, UN38.3, MSDS				
Cabinet Dimension (W/D/H)	1271 x 1530 x 2120 mm				
System Weight		1073 kg	1250 kg	1427 kg	1604 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 and SOC display				
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-614314CN24	LPR-CHVA-691314CN24	LPR-CHVA-768314CN24	LPR-CHVA-845314CN24
Battery Module Quantity	8 modules	9 modules	10 modules	11 modules
Cell Chemistry	LiFePO4			
Module Energy	24.12 kWh			
Module Nominal Voltage	76.8 V			
Module Capacity	314 Ah			
Module Dimension (W/D/H)	440 x 1063 x 242 mm			
Module Weight	177 kg			
System Nominal Voltage	614.4 V	691.2 V	768 V	844.8 V
System Operating Voltage	556.8-691.2 V	626.4-777.6 V	696-864 V	765.6-950.4 V
System Energy	192.92 kWh	217.04 kWh	241.15 kWh	265.27 kWh
Usable Energy at 90% DOD	173.63 kWh	195.33 kWh	217.04 kWh	238.74 kWh
Max. Power	122.88 kW	138.24 kW	153.6 kW	168.96 kW
Recommended Charge / Discharge Current	160 A			
Max. Charge / Discharge Current	200 A			
Cooling Method	Air conditioner + fan cooling			
Communication	CAN, RS485			
Parallel Capability	Up to 4 sets			
Installation Method	Outdoor integrated cabinet installation			
IP Rating	IP54			
Working Temperature	-20°C to 60°C			
Storage Temperature	0°C to 35°C			
Operating Humidity	5%-85% RH			
Operating Altitude	<2000 m			
Recommended Depth of Discharge	90% DOD			
Cycle Life	>=8000 cycles			
Warranty	5+5 years			
Certification	CE, UN38.3, MSDS			
Cabinet Dimension (W/D/H)	1271 x 1530 x 2120 mm			
System Weight	1718 kg	1958 kg	2135 kg	2312 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 and SOC display			
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			

+(0512) 6722 5037 E:info@Levin-Power.com