LPESS | Beyond Sunlight. Proven Power

LPR-CHVL-(154-768)314CH48

48.2kW-241.2kW

- LPR-CHVL-(154-768)314CH48 is a liquid-cooled outdoor high-voltage battery cabinet series using 48S modules for scalable C&I energy storage.

Recommended Applications

- Ideal for outdoor C&I solar storage
- Backup Power
- Peak shaving, and high-voltage battery cabinet projects

Features

Liquid Cooling

Liquid cooling helps control module temperature more evenly, supporting stable high-voltage operation and better long-term performance in demanding commercial projects.

Modular Expansion

One to five modules can be configured in series, allowing project capacity to scale from 48kWh to 241kWh without changing the core module platform.

48S Module

Each system uses 153.6V314Ah liquid-cooled modules, giving customers a clear 48kWh building block for capacity planning and expansion.

Smart Monitoring

RS485/CAN communication and BMS monitoring cover system voltage, cell voltage, cell temperature, current, and SOC for easier commissioning and operation.

High Voltage

The 153.6V to 768V platform supports C&I PCS integration with lower current stress and better suitability for larger storage systems.

Long Lifecycle

LFP chemistry, liquid cooling, 90% usable energy, 6000-cycle design, and 10-year design life help reduce lifecycle cost for commercial users.

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Parameter	LPR-CHVL-154314CH48	LPR-CHVL-307314CH48	LPR-CHVL-461314CH48
Nominal Energy	48.2kWh	96.5kWh	144.7kWh
Module Quantity	1 module	2 modules	3 modules
Nominal Voltage	153.6V	307.2V	460.8V
Voltage Range	136.8-170.4V	273.6-340.8V	410.4-511.2V
Cell Specification	3.2V314Ah LFP cell		
Module Configuration	48S1P		
Battery Module	153.6V314Ah / 48.2304kWh liquid-cooled module		
Usable Energy	43.4kWh	86.8kWh	130.2kWh
Depth of Discharge	90% DoD		
Charge/Discharge Rate	0.5C		
Charge/Discharge Current	157A		
Cooling Method	Liquid Cooling		
Communication	RS485 / CAN / 4G		
Monitoring	System voltage, cell voltage, cell temperature, system current, SOC		
IP Rating	IP55		
Corrosion Resistance	C3 standard, C4/C5 optional		
Fire Protection	Aerosol / Perfluorohexanone 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		
Certification	CE / UN38.3 / MSDS		

Parameter	LPR-CHVL-614314CH48	LPR-CHVL-768314CH48
Nominal Energy	192.9kWh	241.2kWh
Module Quantity	4 modules	5 modules
Nominal Voltage	614.4V	768V
Voltage Range	547.2-681.6V	684-852V
Cell Specification	3.2V314Ah LFP cell	
Module Configuration	48S1P	
Battery Module	153.6V314Ah / 48.2304kWh liquid-cooled module	
Usable Energy	173.6kWh	217.0kWh
Depth of Discharge	90% DoD	
Charge/Discharge Rate	0.5C	
Charge/Discharge Current	157A	
Cooling Method	Liquid Cooling	
Communication	RS485 / CAN / 4G	
Monitoring	System voltage, cell voltage, cell temperature, system current, SOC	
IP Rating	IP55	
Corrosion Resistance	C3 standard, C4/C5 optional	
Fire Protection	Aerosol / Perfluorohexanone optional	
Operating Temperature	-20°C to +50°C	
Operating Altitude	3000m, derating above 2000m	
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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 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.

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