LPESS | Beyond Sunlight. Proven Power

LPR-HLV-51100/51200/51314WH
LPR-HLV-51314MH

5.12kW/10.24kW/16.08kW/16.08kW

LPR-HLV-51100WH

- A compact 5.12kWh wall-mounted LFP battery for residential solar storage, daily backup power, and hybrid inverter systems.

LPR-HLV-51200WH

A 10.24kWh wall-mounted LFP battery for family homes needing longer backup time and stable solar energy storage.

LPR-HLV-51314WH

A 16.08kWh wall-mounted LFP battery for larger homes, higher daily consumption, and extended backup protection.

LPR-HLV-51314MH

A movable 16.08kWh LFP battery with flexible floor placement, ideal for high-capacity home storage without wall mounting.

Recommended Applications

LPR-HLV-51100WH

Ideal For Small Home Backup, Daily Solar Storage, And Compact Wall-Mounted Installations.

LPR-HLV-51200WH

Recommended For Family Homes Needing Longer Backup Time And Higher Usable Energy.

LPR-HLV-51314WH

Designed For Larger Residential Systems, High Daily Consumption, And Extended Outage Protection.

LPR-HLV-51314MH

Suitable For Flexible Indoor Placement Where Mobility, Capacity, And Easy Installation Matter.

Features

Safer LFP Battery

Lithium iron phosphate chemistry offers strong thermal stability and long-term safety, making it well suited for daily residential energy storage.

Long-Term Value

Designed for over 10 years of service life with a 5-year warranty, reducing replacement concerns for residential users.

Wide Compatibility

RS485 and CAN communication support integration with mainstream inverter brands, helping installers build reliable solar storage systems more easily.

Smart Monitoring

Optional Bluetooth allows convenient local access, while communication interfaces support system monitoring, commissioning, and maintenance.

More Usable Energy

With 90% depth of discharge, homeowners can use more of the stored energy for night-time loads and backup power.

Flexible Installation

Wall-mounted models save indoor space, while the movable model supports flexible floor placement for different home installation environments.

LPR-HLV-51100/51200/51314WH
LPR-HLV-51314MH

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Parameter	LPR-HLV-51100WH	LPR-HLV-51200WH
Product Type	Wall-mounted Low-voltage LFP Battery	
Nominal Energy	5,120 Wh	10,240 Wh
Nominal Voltage	51.2 V	
Battery Capacity	100 Ah	200 Ah
Usable Energy	4,608 Wh	9,216 Wh
Depth of Discharge	90% DOD	
Charge / Discharge Voltage Range	45.6-56.8 V	
Recommended Charge / Discharge Current	50 A	100 A
Max. Charge / Discharge Current	100 A, 3S	200 A, 3S
Battery Chemistry	Lithium Iron Phosphate	
Communication	RS485 / CAN / Bluetooth Optional	
Operating Temperature	-20°C to 55°C	
Storage Temperature	-25°C to 60°C	
Humidity	0-95%	
Cycle Life	>=4,000 cycles at 25°C	
Design Life	10+ years	
Electrical Design Redundancy	>20%	
Dimensions	440*453*206 mm	440*804*206 mm
Weight	52 kg	104 kg
Certification	CE / IEC / UN38.3 / MSDS	
Warranty	5 years	
Compatible Inverter Brands	Deye / Growatt / Solis / ATESS / Megarevo / Sinexcel / LPESS	

Parameter	LPR-HLV-51314WH	LPR-HLV-51314MH
Product Type	Wall-mounted Low-voltage LFP Battery	Movable Low-voltage LFP Battery
Nominal Energy	16,076.8 Wh	
Nominal Voltage	51.2 V	
Battery Capacity	314 Ah	
Usable Energy	14,469.12 Wh	
Depth of Discharge	90% DOD	
Charge / Discharge Voltage Range	45.6-56.8 V	
Recommended Charge / Discharge Current	157 A	
Max. Charge / Discharge Current	200 A, 3S	
Battery Chemistry	Lithium Iron Phosphate	
Communication	RS485 / CAN / Bluetooth Optional	
Operating Temperature	-20°C to 55°C	0°C to 40°C
Storage Temperature	-25°C to 60°C	-20°C to 70°C
Humidity	0-95%	15-80%
Cycle Life	>=6,000 cycles at 25°C	
Design Life	10+ years	
Electrical Design Redundancy	>20%	
Dimensions	631*473*266 mm	761*260*503 mm / 493*260*794 mm
Weight	115 kg	113 kg
Certification	CE / IEC / UN38.3 / MSDS	
Warranty	5 years	
Compatible Inverter Brands	Deye / Growatt / Solis / ATESS / Megarevo / Sinexcel / LPESS	

- 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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