

LPR-HLV-51100/51200/51314WJ

LPR-HLV-51314MJ

5.12kW/10.24kW/16kW/168kW

- LPR-HLV-51100WJ is a 5.12kWh wall-mounted 51.2V home battery for compact residential backup, hybrid solar storage, and indoor or protected outdoor installation.
- LPR-HLV-51200WJ delivers 10.24kWh wall-mounted storage for daily household energy shifting, reliable backup power, and compatible low-voltage solar systems.
- LPR-HLV-51314WJ provides 16kWh wall-mounted capacity for larger homes, longer backup time, and high-cycle residential solar storage.
- LPR-HLV-51314MJ offers the same 16kWh 51.2V storage performance in a movable design for flexible home and small-business energy deployment.

Recommended Applications

- LPR-HLV-51100WJ**
Ideal For Apartments, Small Homes, And Essential-Load Backup With Limited Installation Space.
- LPR-HLV-51200WJ**
Recommended For Homes Needing Longer Nighttime Power Use And Daily Solar Self-Consumption.
- LPR-HLV-51314WJ**
Built For Larger Residential Systems Requiring Higher Usable Capacity And Dependable Backup Duration.
- LPR-HLV-51314MJ**
Suitable For Flexible Energy Storage Setups Where Mobility, Repositioning, Or Temporary Deployment Is Preferred.

Features

Safe LFP Chemistry
Lithium iron phosphate chemistry offers strong thermal stability and long-term safety, making the battery suitable for daily residential solar storage and backup use.

Wide Compatibility
CAN and RS485 communication support easier integration with mainstream low-voltage hybrid inverters, helping installers build reliable residential solar storage systems.

More Usable Energy
With 90% recommended depth of discharge, homeowners can use more stored energy for night-time loads, backup power, and daily solar self-consumption.

Long-Term Value
Designed for long service life with up to 8000 cycles on 314Ah models and 5-year warranty support, reducing replacement concerns for residential users.

Smart Monitoring
USB, Bluetooth, and optional WiFi communication options support local access, system monitoring, commissioning, and easier after-sales diagnostics.

Flexible Installation
Wall-mounted models save indoor space, while the movable 16kWh model supports flexible floor placement for different home energy storage environments.

LPR-HLV-51100/51200/51314WJ

LPR-HLV-51314MJ

www.Levin-Power.com

Parameter	LPR-HLV-51100WJ		LPR-HLV-51200WJ
Battery Type	Lithium Iron Phosphate (LFP)		
Nominal Voltage	51.2V		
Nominal Capacity	100Ah		200Ah
Nominal Energy	5.12kWh		10.24kWh
Cycle Life	4500 cycles (80% DOD, 0.5C, 25°C)		
Warranty	5 years		
Maximum Parallel Capacity	16 units		
Recommended Depth of Discharge	90% DOD		
Maximum Charge Voltage	57.6Vdc		
Over-Discharge Protection Voltage	44.8Vdc		
Standard Charge / Discharge Current	50A		100A
Peak Charge / Discharge Current	100A (30s)		150A (30s)
Charge Operating Temperature	0°C to 55°C		
Discharge Operating Temperature	-10°C to 45°C		-10°C to 55°C
Product Weight	57kg		98kg
Protection Rating	IP21 / IP65		
Maximum Working Altitude	<2000m		
Dimensions (W x D x H)	450 x 205 x 650mm		450 x 200 x 950mm
Communication	CAN / RS485 / USB / Bluetooth / WiFi (optional)		
Storage Condition	6 months at 25°C		
Heating Function	Optional		
Installation Method	Wall-mounted / floor-standing		
Certifications	UN38.3, MSDS, CE, CB		

Parameter	LPR-HLV-51314WJ	LPR-HLV-51314MJ
Battery Type	Lithium Iron Phosphate (LFP)	
Nominal Voltage	51.2V	
Nominal Capacity	314Ah	
Nominal Energy	16kWh	
Cycle Life	8000 cycles	
Warranty	5 years	
Maximum Parallel Capacity	16 units	
Recommended Depth of Discharge	90% DOD	
Maximum Charge Voltage	57.6Vdc	
Over-Discharge Protection Voltage	44.8Vdc	
Standard Charge / Discharge Current	155A	
Peak Charge / Discharge Current	240A (3s)	
Charge Operating Temperature	0°C to 55°C	
Discharge Operating Temperature	-10°C to 55°C	
Product Weight	130kg	
Protection Rating	IP65	
Maximum Working Altitude	2000m (derating required above 2000m)	
Dimensions (W x D x H)	500 x 248 x 870mm	
Communication	CAN / RS485 / USB / Bluetooth / WiFi (optional)	
Storage Condition	6 months at 25°C	
Heating Function	Optional	
Installation Method	Wall-mounted / floor-standing	Movable floor placement
Certifications	UN38.3, MSDS, CE, CB	

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