



Home Energy Storage Battery Series

LV-BAT-W5.12Ac

51.2V 100Ah 5.12kWh

Version: V1.0



The LV-BAT-W5.12Ac is a comprehensive home wall-mounted solar lithium battery. It features built-in high-quality, high-capacity LiFePO₄ batteries, ensuring a long system lifespan for the battery. The independently designed Battery Management System (BMS) has been verified to be compatible with inverters from different brands, supporting hybrid grid-tied and off-grid operation modes.

FEATURES



Multi-Scenario

Full-Scenario Coverage, Empowering Household Energy Freedom

- PV Consumption + Peak-Valley Arbitrage Enhances solar efficiency, generates electricity price gap earnings.
- Emergency Backup + Grid Interaction Seamless power backup, supports Bluetooth APP control.
- Space Optimization + Eco Carbon Reduction Compact design for small homes, visual carbon emission tracking.



Longer Life and Safer

Core Defense Line: A Decade of Worry-Free Home Protection

- Cell-level safety: LFP chemistry, high thermal stability, no thermal runaway
- BMS Smart Protection: Millisecond cut-off for overcharge, over-discharge & short circuit; auto cut-off >60°C. Maintains 70% efficiency from -20°C to 60°C.
- All-Environment Reliability: Active balancing, built-in heating, Wi-Fi monitoring, IP65 protection & salt-spray resistance.
- Smart Maintenance: Auto-detects inverter connection & automatically isolates faulty modules.
- Extended Lifespan: Cost-effective model - 10 years worry-free.



Efficient Maintenance

Smart, Predictive Maintenance: Cuts Costs by 70%

- Lifespan Prediction: 6-month early aging warning with 92% accuracy.
- Cloud Upgrade: Second-level refresh, global APP (iOS/Android), remote energy strategy control.
- Remote Diagnosis: Real-time monitoring of voltage, temperature & capacity degradation; one-click fault code push.
- Self-Maintenance: Auto-sleep when idle; auto-recharges to 60% monthly; auto dehumidification in damp environments.



Flexible and Expandable

Smart Scalability: Flexible Architecture, Adapts On-Demand

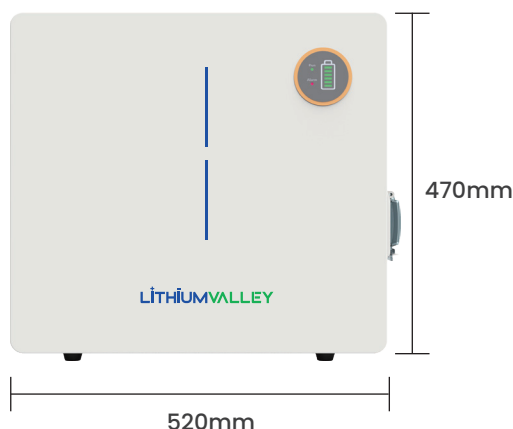
- Flexible Installation: IP-rated protection withstands dust and moisture. Suitable for garage, balcony, or outdoor wall.
- Simple Parallel Connection: Supports up to 20 units for a total of 102.4kWh.



Compatible with inverters

- SMA/Schneider/Sungrow/Victron energy/Ingeteam/Solis/GoodWe/Growatt/SAJ/Solplanet/Luxpower/Deye/Apsystem etc./Afore

Dimensions



Product Name

LV-BAT-W5.12Ac

Battery Type	LiFePO4
Rated Energy	5120Wh
Rated Capacity	100Ah
Rated Voltage	51.2V
Operating Voltage	44.8~57.6V
Recommended Charge/Discharge Current	50A
Max continuous charge/discharge current	Charge/Discharge Current : 100A
Peak Discharge Current	120A@2min
Depth of Discharge (DOD)	95%
Net Weight	47.0kg
Dimensions (W/D/H)	520/141.5/470mm
Charging Temperature Range	0~55°C
Discharging Temperature Range	-20~55°C
Wi-Fi Module	Built-in Wi-Fi module; APP and OTA functions
Communication Method	CAN/RS485
Cycle Life	6000 Cycles
IP Code	IP65 (Salt Fog Resistant)
Active Fire Protection System	Optional aerosol fire extinguisher
Capacity Expansion	Max. 20 modules in parallel
Advantages	Suitable for off-grid and on-grid modes, compact design

Certification

UN38.3/CE-EMC/IEC62619/CE-RED

*The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.

*The specifications are subject to change without prior notice.