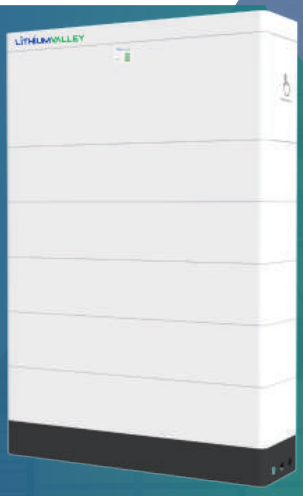
LITHIUMVALLEY

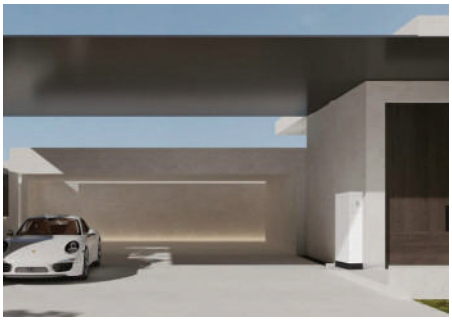




# Home Energy Storage Battery Series

**LV-BST-H2.56Ba** | **51.2V 50Ah 2.56kWh**

Version: V1.0







LV-BST-H2.56Ba is a stacked energy storage battery. Simple and quick assembly allows for flexible customization of battery banks to meet diverse energy storage needs. Equipped with an intelligent BMS, it continuously monitors and optimizes battery performance to extend service life, and supports remote management via a mobile app so you can stay informed of household energy status at all times. Comprehensive protections against over-charge, over-discharge, short circuit, and extreme temperatures ensure safe operation in all scenarios—making it a reliable choice for residential energy security.

## FEATURES

### Multi-Scenario

- tackable product, and the battery also has a mobile energy storage function
- IP65 protection level, suitable for various weather conditions

### Longer Life and Safer

- A+ grade lithium iron phosphate
- Built-in hot aerosol fire extinguishing device

### Low Maintenance

- Firmware update service via built-in BLE
- Check battery operation status and configure BMS via BLE

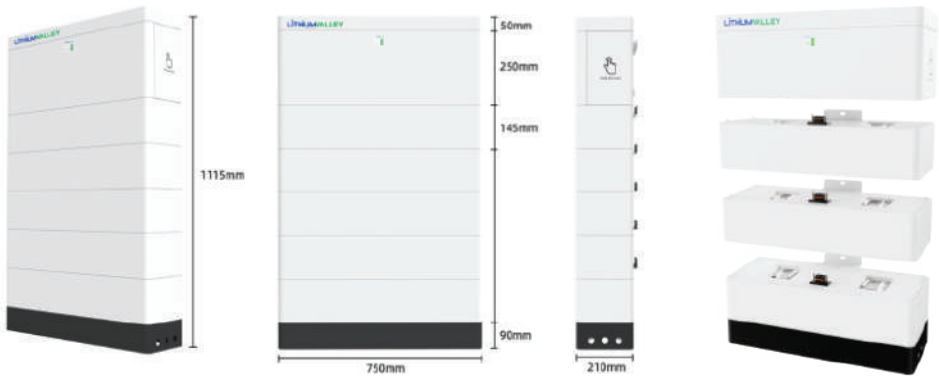
### Flexible and Expandable

- 3 to 10 layers recommended
- The maximum capacity is 25.6 kilowatt-hours

### Certification

- UN38.3, MSDS, Marine Report

## Dimensions




| Technical Specification | LV-BST-H2.56Ba | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Model | 153.6V50Ah | 204.8V50Ah | 256V50Ah | 307.2V50Ah | 358.4V50Ah | 409.6V50Ah | 460.8V50Ah | 512V50Ah |
| Number of layers | 3 layers | 4 layers | 5 layers | 6 layers | 7 layers | 8 layers | 9 layers | 10 layers |
| Picture |  | | | | | | | |
| Energy | 7.68KWh | 10.24KWh | 12.8KWh | 15.36KWh | 17.92KWh | 20.48KWh | 23.04KWh | 25.6KWh |
| Operating Voltage Range | 129.6V~168.48V | 172.8V~224.64V | 216V~280.8V | 259.2V~336.96V | 302.4V~393.12V | 345.6~449.28V | 388.8V~505.44V | 432V~561.6V |
| Dimension (L*W*H)mm | 600*210*825 | 600*210*970 | 600*210*1115 | 600*210*1260 | 600*210*1405 | 600*210*1550 | 600*210*1695 | 600*210*1840 |
| Recommend charge current | 25A | | | | | | | |
| Max continue charge current | 50A | | | | | | | |
| Max continue discharge current | 50A | | | | | | | |
| Peak current | 100A | | | | | | | |
| Display | The information of Battery, such as SOC, battery voltage and so on | | | | | | | |
| Communication | Support RS485 / CAN | | | | | | | |
| Maximum parallel support | 4 clusters(3 to 10 units per cluster) | | | | | | | |
| Charge temperature | 0℃~55℃ | | | | | | | |
| Discharge temperature | -20℃~60℃ | | | | | | | |
| Environment | Indoor/outdoor under roof (avoid direct sunlight) | | | | | | | |
| Relative humidity | 5%~95% | | | | | | | |
| Cooling | Natural convection | | | | | | | |
| Cell technology | Lithium-iron phosphate (LiFePO4) | | | | | | | |
| Protection Rating | IP65 | | | | | | | |
| Life cycle | 6000 times @80%DOD | | | | | | | |

| Single module Technical Specification | |
|---|---|
| Module | 51.2V 50Ah, 2.56kWh |
| Dimension (L*W*H)mm | High Voltage Box:750*210*250 Battery Box:750*210*145 |
| Weight(KG) | High Voltage Box:14 Battery Box:28 |

*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.

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