

LITHIUM ION BATTERIES

SmartStor-005 **5120Wh**



Main Features



Customized Panel

Equipped with a large display design for real-time monitoring of key information. Features display screen buttons to turn the screen on/off based on usage needs.



Flexible Expansion

Modular design, supports parallel connection of up to 16 identical battery packs. The number of parallel connections can be customized to meet different household requirements.



Safe & Reliable

Utilizes lithium iron phosphate (LiFePO₄) cells and a mature Battery Management System (BMS) for safety and reliability.



Perfect compatibility

The built-in BMS can communicate and collaborate with various mainstream inverters, compatible with multiple leading inverter brands.



Superior Performance

Supports 0.5C max charge rate and 1C discharge rate.



Space Saving

Wall-mounted installation supported, saving space.

Technical Parameters

Model	BP-5.0-LV2
Single Cell	
Cell Type	Lithium Iron Phosphate (LiFePO4)
Cell Rated Capacity	100Ah @ 0.2C, 25℃
Cell Rated Voltage	3.2Vdc
Battery Pack	
Rated Capacity	5120Wh
Configuration	16S1P
Rated Voltage	51.2Vdc
Operating Voltage Range	44.8~57.6Vdc
Maximum Charging Voltage	57.6Vdc
Discharge Cut-off Voltage	44.8Vdc
Charging Method	CC-CV
Maximum Continuous Charging Current	50A (0.5C)
Maximum Continuous Discharging Current	100A (1C)
Activation Method	Button Activation, Charging Activation
Parallel Connection	Up to 16 battery packs in parallel, series connection prohibited
Communication	RS485/CAN/dry contact
Charging Temperature Range	0~55℃
Discharging Temperature Range	-20~55℃
Power On/Off Button	Rocker Switch
Reset Button	Yes, Tactile Switch (on communication board)
Light Board Button	Yes, Tactile Switch (on light board)
Cycle Life	2500 cycles (@25±2℃, 0.5C charge/0.5C discharge)
Net Weight	45kg
Gross Weight	51kg
Product Dimensions	W*H*D=460*543*202mm (±2mm)
Packaging Dimensions	L*W*H=644*574*293mm (±2mm)
Protection Rating	IP21
Cooling Method	Natural Cooling
Installation Method	Wall-mounted
Storage Conditions	Storage Temperature: 10~30℃, SOC: 40%; If stored for a long time, perform a charge/discharge cycle every three months.