

5KWH LIFEPO₄ BATTERY DATASHEET

Models: BST-PWBA24200 (24 V)

BST-PWBA48100 (48 V)

Key Features

- Long Cycle Life: ≥ 6000 cycles at 80% DOD, 25 °C
- High Safety: LiFePO₄ chemistry with stable thermal performance
- Smart BMS: Integrated protection against overcharge, over-discharge, overcurrent, and short-circuit
- Parallel Capability: Up to 16 units for capacity expansion
- High Efficiency: $\geq 95\%$ round-trip efficiency
- Multiple Communications: RS485 / CAN / RS232
- Warranty: 3 years

Technical Specifications

Parameter	Specification BST-PWBA24200	Specification BST-PWBA48100
Rated Energy	5.12 kWh	5.12 kWh
Nominal Voltage	25.6 V	51.2 V
Cell Configuration	8 S	16 S
Recommended Charge Cut-off Voltage	28.8 V	57.6 V
Recommended Discharge Cut-off Voltage	24 V	48 V
Max. Charge & Discharge Current (10 s)	120 A	100 A
Recommended Charge & Discharge Current	≤ 90 A	≤ 80 A
Max. Output Power (10 s)	3000 W	5000 W
Recommended Output Power	≤ 2400 W	≤ 4000 W
Depth of Discharge (DOD)	80%	80%
Cycle Life	≥ 6000 cycles @ 80% DOD, 25 °C	≥ 6000 cycles @ 80% DOD, 25 °C

Efficiency	≥ 95%	≥ 95%
Operating Temperature	0 °C ~ 60 °C	0 °C ~ 60 °C
IP Rating	IP21	IP21
Communication Ports	RS485 / CAN / RS232	RS485 / CAN / RS232
Dimensions (L×W×H)	455 × 160 × 590 mm	455 × 160 × 590 mm
Net Weight	47.5 kg	47.5 kg
Packing Size (L×W×H)	552 × 335 × 688 mm	552 × 335 × 688 mm
Gross Weight	64.3 kg	64.3 kg

Applications

- Off-grid solar systems
- Hybrid solar power setups
- Residential and commercial backup storage
- Telecom and base station power backup
- Renewable energy integration

Contact Information

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