

10KWH LIFEPO₄ BATTERY DATASHEET

Model: BST-PWBA48200 (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: ≥ 95% round-trip efficiency
- Multiple Communications: RS485 / CAN / RS232
- Warranty: 3 years

Technical Specifications

Parameter	Specification BST-PWBA48200
Rated Energy	10.25 kWh
Nominal Voltage	51.2 V
Cell Configuration	16 S
Recommended Charge Cut-off Voltage	57.6 V
Recommended Discharge Cut-off Voltage	48 V
Max. Charge & Discharge Current (10 s)	200 A
Recommended Charge & Discharge Current	≤ 160 A
Max. Output Power (10 s)	10000 W
Recommended Output Power	≤ 8000 W
Depth of Discharge (DOD)	80%
Cycle Life	≥ 6000 cycles @ 80% DOD, 25 °C
Efficiency	≥ 95%
Operating Temperature	0 °C ~ 60 °C
IP Rating	IP21
Communication Ports	RS485 / CAN / RS232
Dimensions (L×W×H)	535 × 160 × 740 mm
Net Weight	85.5 kg
Packing Size (L×W×H)	615 × 335 × 820 mm
Gross Weight	103.2 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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