

## **10 KWH LIFEPO<sub>4</sub> BATTERY DATASHEET**

Model: BST-PWBA48200 (48 V)

### **Key Features**

- Long Cycle Life:  $\geq 6000$  cycles at 80% DOD, 25 °C
- High Safety: LiFePO<sub>4</sub> 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**

<b>Specifications</b>	<b>BST-PWBA48200</b>
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	$\leq 160$ A
Max. Output Power (10 s)	10000 W
Recommended Output Power	$\leq 8000$ W
Depth of Discharge (DOD)	80%
Cycle Life	$\geq 6000$ cycles @ 80% DOD, 25 °C
Efficiency	$\geq 95\%$
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

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