

10.25kWh LITHIUM BATTERY – DATA SHEET

Model: BST-PWBA48200

Battery Type: LiFePO₄ (Lithium Iron Phosphate)

Key Features

- High-quality Gotion battery cells
- Long life: over 6000 cycles at 80% DOD
- Integrated Smart BMS for protection and system communication
- Compact design with efficient thermal performance
- Can be paralleled (up to 16 units) for greater capacity
- Compatible with most inverters via RS485 / CAN / RS232

Technical Specifications

Parameter	Value
Rated Energy	10.25 kWh
Rated Voltage	51.2V
Cell Configuration	16S (16 cells in series)
Recommended Charge Cut-off	57.6V
Recommended Discharge Cut-off	48V
Max Charge & Discharge Current	200A @10s
Recommended Charge/Discharge	≤160A
Maximum Output Power	10,000W @10s
Recommended Output Power	≤8000W
Depth of Discharge (DOD)	≥95%
Cycle Life	6000+ Cycles @80%DOD, 25°C
Communication Protocols	RS485 / CAN / RS232
Operating Temperature	0°C to 60°C
IP Rating	IP21
Product Size (L × W × H)	535 × 160 × 740 mm
Net Weight	85.5 kg
Packing Size	615 × 335 × 820 mm
Gross Weight	103.2 kg

Integration

This battery is designed for:

- Off-grid and hybrid solar systems
- Telecom base stations
- Backup UPS systems
- Compatible with inverter brands supporting RS485, CAN, or RS232

Contact Information

Entelechy Uganda / Bultec Engineering Solutions

 Website: www.entelechy-ug.com

 Email: bultecengineeringsolutions@gmail.com