

5.12kWh LITHIUM BATTERY – DATA SHEET

Model: BST-PWBA24200

Battery Type: LiFePO₄ (Lithium Iron Phosphate)

Key Features

- High-quality Got ion 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	5.12 kWh
Rated Voltage	25.6V
Cell Configuration	8S (8 cells in series)
Recommended Charge Cut-off	28.8V
Recommended Discharge Cut-off	24V
Max Charge & Discharge Current	120A @10s
Recommended Charge/Discharge	≤90A
Maximum Output Power	3000W @10s
Recommended Output Power	≤2400W
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)	455 × 160 × 590 mm
Net Weight	47.5 kg
Packing Size	552 × 335 × 688 mm
Gross Weight	64.3 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