

# BIG BEARD BATTERY<sup>TM</sup> BBB24V300 THE BEAST



## **GENERAL SPECIFICATIONS:**

- Battery Type: LiFePO4 (Lithium Iron Phosphate)
- Cell type: Prismatic
- Nominal Voltage: 25.6V
- · Nominal Capacity: 305Ah
- Energy: 7680Wh (7.68 kWh)
- Cycle Life: ≥4000 cycles at 80% Depth of Discharge (DOD)
- Design Life: 11 years

# **ELECTRICAL CHARACTERISTICS:**

- Nominal Voltage: 25.6V
- Operating Voltage Range: 24.0V 28.8V
- Max Continuous Discharge Current: 200A
- Peak Discharge Current: 350A (up to 10 seconds)
- Max Continuous Charge Current: 200A
- Charge Cut-off Voltage: 29V ± 0.2V
- Discharge Cut-off Voltage: 22.4V
- C-rate: 0.5C for recommended discharge, 1C for max continuous discharge

#### PHYSICAL SPECIFICATIONS:

- Dimensions (L × W × H): 19" L x 16.25" W x 10.5" H
- Weight: 132lbs
- Terminal Type: threaded terminal post
- Case Material: metal

#### PERFORMANCE CHARACTERISTICS:

- Self-Discharge Rate: ≤3% per month
- Efficiency: ≥96% round-trip
- Temperature Range:
- Discharge Temperature: 34°F to 120°F (internal self-heating will turn on at 34°F)
- Charge Temperature: 32°F to 113°F
- Storage Temperature: (-4°F to 113°F)

### **SAFETY AND PROTECTIONS:**

- Battery Management System (BMS):
- Overcharge Protection
- Over-discharge Protection
- Overcurrent Protection
- Short Circuit Protection
- Thermal Protection
- Internal heating turn on temp 34° and turn off temp 40°
- Cell Balancing- Active at 3.4v on each cell
- On off/switch for storage mode



#### **APPLICATIONS:**

- Solar Energy Storage
- RV/Off-grid Use
- Off-grid Power Systems
- Backup Power

#### **WARRANTY:**

- 11-year limited warranty
- 11-year expected lifespan









