



**72V 50AH**  
**ELECTRIC**  
**MOTORCYCLE**  
**LITHIUM BATTERY**

**BUILT FOR POWER, RANGE & RELIABILITY**

**APPLICATION:** HIGH-POWER ELECTRIC MOTORCYCLE & CONVERSIONKITS  
**CELL CONFIGURATION:** PREMIUM **SAMSUNG 21700 50S** CELLS INTEGRATED

**WEBSITE:** [WWW.BOOANT.COM](http://WWW.BOOANT.COM)

## 01. PRODUCT OVERVIEW & ARCHITECTURE

The BOOANT 72V 50Ah flagship lithium battery pack is engineered exclusively for high-performance electric motorcycles and severe demand e-mobility conversion markets. Encased in a ruggedized, heavy-duty industrial metal enclosure, it delivers unparalleled structural protection alongside optimal thermal dissipation profiles required during prolonged high-rate discharge cycles.

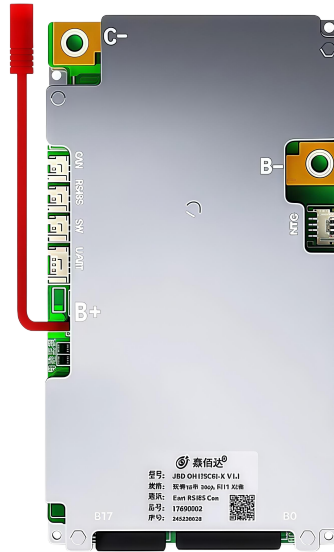


### Key Performance Structural Benefits:

- **Heavy-Duty Armor Case:** Rigorous impact protection against road debris, vibrations, and accidental drops common in motorcycle dynamics.
- **Authentic Grade-A Cells:** Exclusively populated with genuine high-drain Samsung 21700 50S cells for extended lifespan and nominal voltage stability under load.
- **Professional Grade Wiring:** Ultra-low resistance 10AWG pure silicone discharge cables ensuring zero thermal bottlenecks at heavy load peaks.

## 02. SMART BMS ARCHITECTURE

At the core of the BOOANT flagship power system lies the highly advanced JBD Programmable Battery Management System (BMS). The system maintains absolute equilibrium across all series cell groups while continuously safeguarding the architecture from operational anomalies.

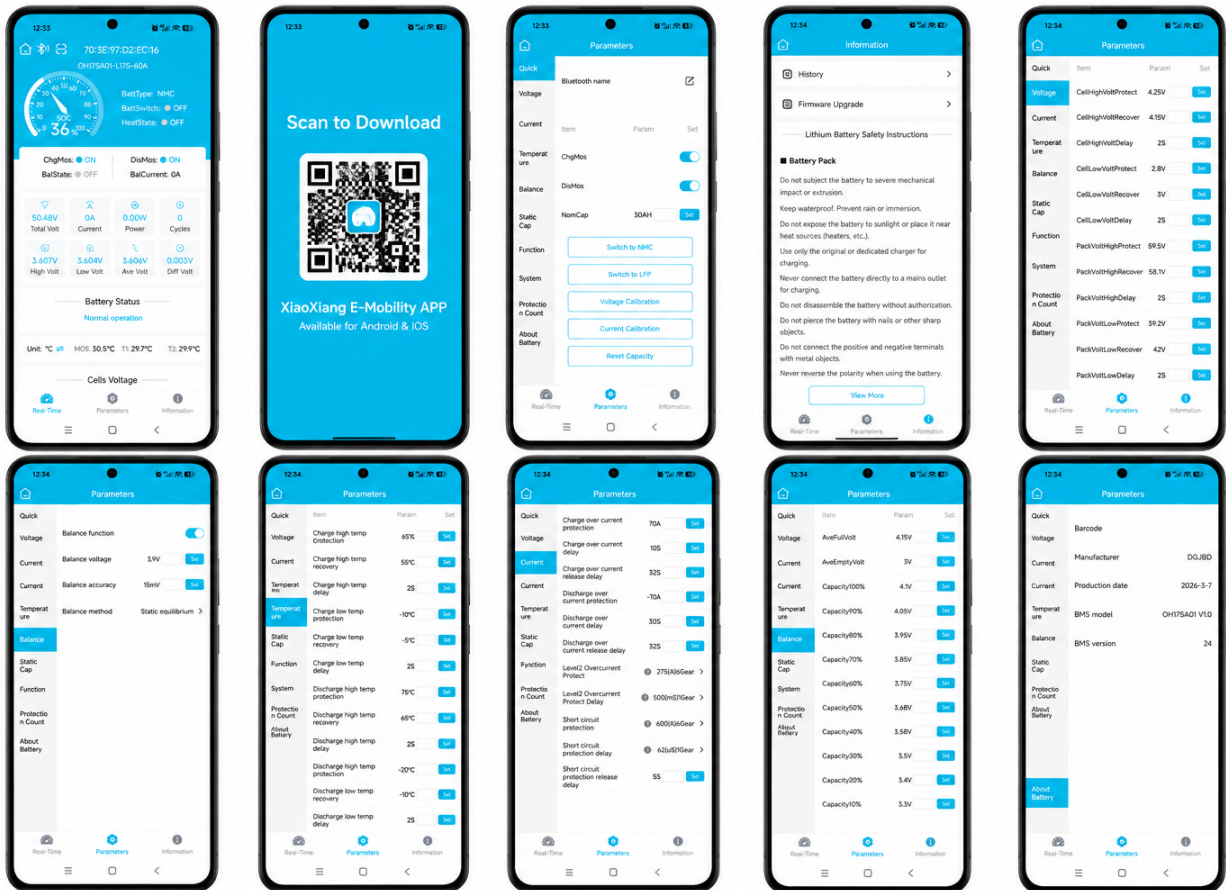


### Integrated Protective Layers:


Protection Protocol	Threshold Limit	Recovery Mechanism
Cell Over-Charge Protection	4.25V ± 0.05V	Automatic release at 4.15V per cell
Cell Over-Discharge Protection	2.80V ± 0.10V	Automatic recovery upon charger connection (3.00V)
Over-Current Protection (Continuous)	60A continuous	Software lockout delay: 10 Seconds
Short-Circuit Protection	≥ 600A load spike	Instantaneous cut-off within 62 microseconds; auto-release
High-Temperature Cutoff (Discharge)	75°C (167°F)	Cool down auto-recovery at 65°C (149°F)

## 03. XIAOXIANG E-MOBILITY SMART CONTROL

Equipped with an integrated high-fidelity Bluetooth transceiver, the battery communicates directly with the XiaoXiang E-Mobility suite available on iOS and Android platforms. This grants users real-time granular control and transparent configuration over the entire pack dynamics.



Scan to Download



XiaoXiang E-Mobility APP

Available for Android & iOS

## 04. HEAVY-DUTY CHARGING INFRASTRUCTURE

Every BOOANT flagship motorcycle power unit is bundled with a matching high-rate smart lithium-ion charger. Utilizing an advanced multi-stage CC/CV charging loop profile, it minimizes internal cell degradation and optimizes capacity retention over lifecycle stages.

### Internal Architecture:



Heavy-duty copper transformers, solid-state capacitors, and an automated variable speed cooling fan prevent thermal pooling.

### External Enclosure:



Corrosion-resistant treated aluminum extrusion with a rugged black anodized hard-shell industrial finish.

### Charger Technical Parameters:

Parameter Item	Technical Engineering Metric
Input Supply Voltage Range	100–240V AC Adaptive (50Hz / 60Hz)
Nominal DC Output Voltage	84.0V DC (Optimized for 20S Li-ion Configuration)
Maximum Safe Charging Current	5A Nominal / High Rate
Status Indicator System	Dual LED Matrix (Red: Charging Loop / Green: Fully Satiated)

## 05. CORE TECHNICAL PARAMETER SHEET

The matrix below aggregates verified production configurations and engineering properties for the BOOANT V7 Flagship series motorcycle battery system.

Engineering Property Name	Verified Production Specification Value
<b>Integrated Physical Dimensions</b>	<b>11.8 x 9.45 x 6.3 inches (300 x 240 x 160 mm)</b>
<b>Net Product Weight</b>	<b>Approx. 38.6 lbs (17.5 kg)</b>
<b>Nominal System Voltage</b>	72V DC
<b>Rated Full Pack Capacity</b>	50Ah
<b>Total Stored Energy Profile</b>	3600Wh (3.6 kWh)
<b>Internal Cell Core Class</b>	<b>Genuine Samsung 21700 50S High-Drain Grade A Cells</b>
<b>Continuous Discharge Limit</b>	60A / 80A / 100A / 150A
<b>Peak Discharge Multiplier (1-3 Sec)</b>	180A / 240A / 300A / 450A
<b>Charge Upper Cut-off Voltage</b>	84.0V
<b>Discharge Lower Cut-off Limit</b>	60.0V
<b>Standard Output Interface</b>	High-current QS-10/Anderson (Custom Configurations Available)
<b>Enclosure Construction Class</b>	IP65 Sealed Heavy Duty Electroplated Sheet Metal Armor Case



# THANK YOU

**BOOANT POWER TECHNOLOGY CO., LTD.**

We empower your electric journeys with cutting-edge lithium core safety and performance.

Customer Operations Email: [support@booant.com](mailto:support@booant.com)

Official Shopify Portal: [www.booant.com](http://www.booant.com)