



Product Specification Sheet

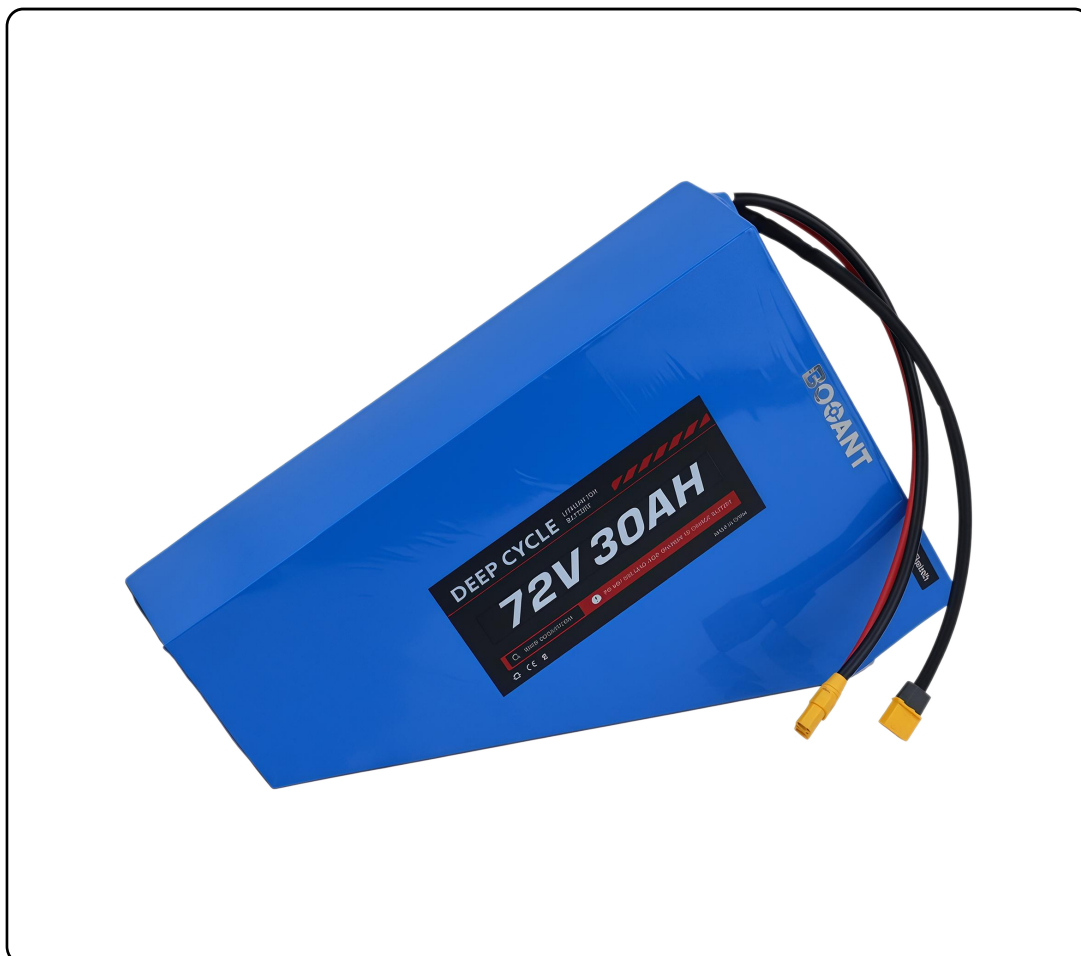
HIGH-PERFORMANCE LITHIUM-ION BATTERY PACK

72V 30Ah Smart Motorcycle Battery System

Product Overview & Highlights

The BOOANT 72V 30Ah Triangle Lithium Battery combines genuine Samsung 21700 cells, intelligent Bluetooth battery management, and a compact triangle design to deliver dependable performance for high-power electric vehicles.

- ✓2160Wh High-Energy Battery System
- ✓Genuine Samsung INR21700-50G Cells
- ✓Smart Bluetooth BMS with Mobile APP
- ✓Real-Time Monitoring & Protection Functions
- ✓Long Cycle Life and Reliable Performance
- ✓Designed for Electric Motorcycles



Integrated Smart BMS Technology

At the core of the BOOANT flagship power pack is a heavy-duty JBD Smart Battery Management System (BMS). This high-efficiency solid-state control circuit monitors individual cell strings in real time, delivering military-grade defense parameters against electrical anomalies while actively maximizing the overall operational lifespan of the battery system.

BMS Architectural Protection Grid

OVER-CURRENT PROTECTION

Prevents severe cell stress by instantly cutting off power output during unexpected current spikes or excessive high-wattage acceleration demands.

OVER-CHARGE / DISCHARGE DEFENSE

Monitors voltage triggers down to millivolt thresholds, automatically disconnecting the circuit to safeguard cells against over-voltage swelling or deep depletion.

DUAL THERMAL SENSORS

Integrated temperature monitors actively map heat signatures inside the PVC wrap, shutting down operations if safety thresholds are compromised.

ACTIVE CELLULAR BALANCING

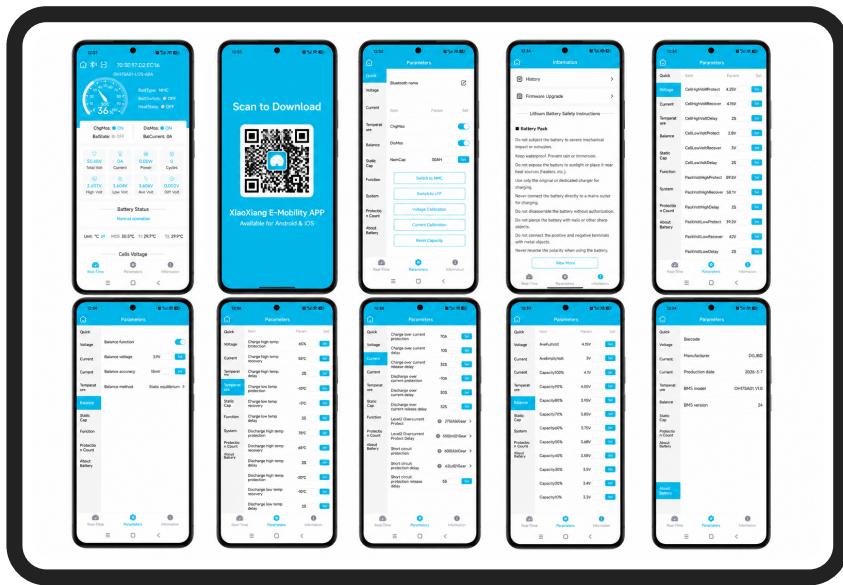
Intelligent static equilibrium balance circuitry actively redistributes voltage across cell strings during charging cycles, preserving unified cell capacity.

Heavy-Duty Connectivity Protocols

Equipped with industry-standard XT90 / high-current connectors and 10AWG silicone wiring, the BMS guarantees near-zero impedance transmission. It is calibrated to sustain high continuous discharge rates while preventing heat localization, ensuring optimal powertrain performance on demanding tracks or highway commuting.

XiaoXiang E-Mobility APP Integration

Experience seamless, real-time control over your power system through the integrated Bluetooth module and the official XiaoXiang E-Mobility dashboard. Available natively for both Android and iOS devices, this interface turns your smartphone into an advanced motorcycle diagnostics hub.



Scan to Download APP

Instant Sync

Scan the QR code below to immediately download the compatible XiaoXiang E-Mobility management utility onto your device.



Monitored Parameters

- State of Charge (SOC %)
- Individual Cell Voltages
- Real-time Amperage & Wattage
- BMS MOSFET Thermal Maps
- Cycle Counter Analytics

Dedicated Premium Fast Charging System

Every flagship BOOANT power pack is paired with a heavy-duty smart cooling charger, engineered precisely to match the optimal voltage architecture of the 72V 30Ah lithium matrix. Built into a premium extruded aluminum alloy housing, the charger utilizes an advanced internal topology to deliver high-amperage current with minimal grid loss.



The internal architecture features high-grade filtering capacitors, an oversized copper transformer core, and isolated safety relays that guarantee high conversion efficiency and prevent grid feedback damage.

The exterior rugged aluminum shell incorporates dual active cooling fans and an integrated safety fuse slot. Wide-range AC input capabilities ensure smooth performance across various geographic power grids.

Charging Safety Infrastructure

Safety Function	Technical Operation & Mechanism
Reverse Polarity Protection	Internal physical isolation prevents current flow if charging terminals are cross-connected.
Over-Charge Prevention	Automatically switches to trickle cut-off mode the moment peak voltage thresholds are achieved.
Active Thermal Control	Dual internal cooling fans automatically adjust speed based on real-time internal thermistor readouts.

Comprehensive Technical Specifications

The definitive engineering parameter matrix below outlines the absolute electrical, thermal, mechanical, and operational boundary definitions for the BOOANT 72V 30Ah system.

Electrical Parameters

Nominal Voltage	72V
Nominal Capacity	30Ah
Watt-Hour Rating	2160Wh
Charging Cut-off Voltage	84V
Discharge Cut-off Voltage	60V
Continuous Discharge Current	Configurable via Smart BMS up to 60A
Peak Discharge Current	50A / 150A (Pulse Limits)

Mechanical & Operational Constraints

Exterior Casing material	Insulated High-Temperature Blue PVC Film Wrap
Power Output Termination Wires	Heavy-Duty 10AWG Flexible High-Temperature Silicone Wire
Standard Charging Profile	CC / CV (Constant Current / Constant Voltage) 5A Charger included
Operating Temperature (Charge)	0°C to 45°C
Operating Temperature (Discharge)	-20°C to 60°C
Communication Protocol	Bluetooth Wireless Sync via XiaoXiang E-Mobility Mobile Suite



UNLEASH NEXT-GENERATION E-MOBILITY POWER

BOOANT Power Technology Co., Ltd.

Premium Engineered Lithium Battery Systems for Light Electric Vehicles

Official Website: www.booant.com