



## Product Specification Sheet

# 36V 30AH METAL CASE E-BIKE BATTERY

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High-capacity engineered lithium-ion storage solutions designed for advanced e-mobility conversion and long-range micro-transportation sectors.

**DOCUMENT TYPE**

Technical Specification & Product Data Sheet

**BATTERY MODEL**

BOOANT 36V 30AH Lithium - ion Battery Pack

## 01 / PRODUCT ARCHITECTURE

The BOOANT 36V 30Ah lithium-ion battery system represents the absolute premium standard in e-bike and light electric vehicle conversion industries. Built inside an ultra-rugged metallic casing, this package combines extreme durability with massive range.

- **Durable Metal Housing**

A sturdy metal enclosure helps protect the battery from vibration, impacts, and everyday use while providing a clean and professional appearance.

- **Genuine Samsung Cells**

Built with authentic Samsung lithium cells and equipped with heavy-duty 10AWG silicone output cables for reliable power delivery and long service life.



## 02 / INTELLIGENT BATTERY MANAGEMENT SYSTEM

Safety and lifespan longevity are controlled entirely at the hardware layer. Every BOOANT V7 Flagship battery system integrates a custom solid-state Battery Management System (BMS) with dedicated multi-point sensing topography.

- **Smart Battery Protection**

The integrated smart BMS monitors voltage, current, and temperature in real time to help protect the battery from overcharging, over-discharging, short circuits, and excessive current.

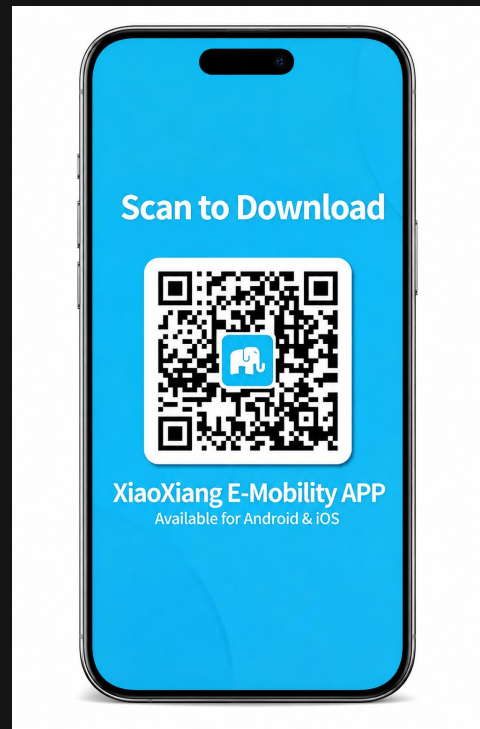
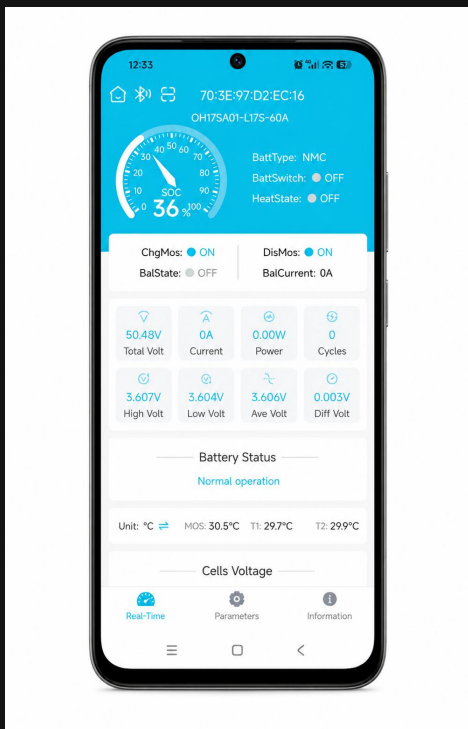
- **Cell Balancing Technology**

Automatic cell balancing helps maintain consistent performance across the battery pack, improving efficiency, reliability, and long-term cycle life.



## 03 / BLUETOOTH MOBILE TELEMETRY SUITE

The integrated smart Bluetooth chip bridges the gap between raw hardware metrics and real-time operator awareness. Monitor your battery's complete internal analytics right from your smartphone.



## 04 / CHARGING ARCHITECTURE & HARDWARE

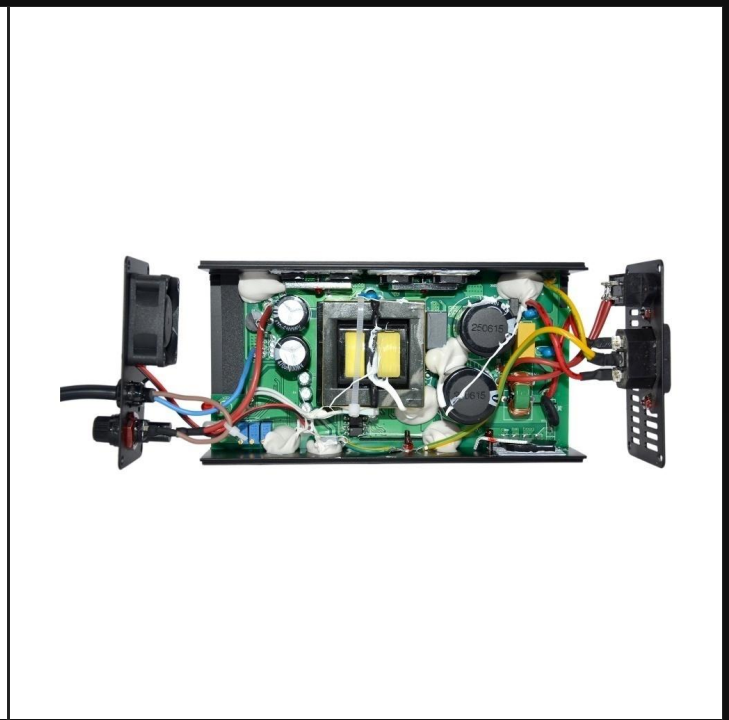
Safe fast charging requires a perfectly balanced charging supply. Every pack comes bundled with a heavy-duty, smart cooling fan charging brick engineered to match the internal cell demands safely.

### ENCLOSURE DESIGN

Heavy finned aluminum extrusion structure optimizes passive heat radiant flow. Integrated brushless high-volume cooling fans activate under full load to maintain ambient core metrics.

### INTERNAL ELECTRONICS

Premium step-down magnetic transformer coils and high-voltage filtering capacitors deliver an ultra-clean, noise-free DC line minimizing damage risk to the cell layers.



## 05 / COMPLETE ENGINEERING DATASHEET

ENGINEERING PARAMETER	FACTORY STANDARD VALUE
Nominal Operational Voltage	36V
Rated Storage Capacity	30Ah (1080Wh)
Dimensions & Weight	300mm × 190mm × 90mm (11.8in × 7.5in × 3.5in) & Approx.7kg (15.4lbs)
Max Charging Top Cut-off Voltage	42V
Discharge Lower Cut-off Level	30V
Standard Charge Current Limit	5A Maximum
Continuous Discharge Rating	30A – 50A (BMS Model Dependent)
Peak Peak Surge Delivery	90A / 150A (Sub-100ms Burst Windows)
Enclosure Construction	Reinforced Structured Metal Protective Alloy
Standard Connection Interfaces	XT60 / XT90 / Customizable Configurations
Discharge Wiring Blueprint	Heavy-Duty Industrial 10AWG Silicone Cable
Smart Communications Interfacing	Bluetooth Link via XiaoXiang App Suite

**CRITICAL SYSTEM OPERATIONAL ADVISORY:** Never place or charge the battery package within high temperature zones, enclosed direct intense sunlight, or adjacent to open combustion zones. Always utilize the certified matching smart charge supply to prevent internal balancing errors or structural thermal failures.



# THANK YOU FOR CHOOSING BOOANT POWER SOLUTIONS

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We are fully dedicated to providing premium, ultra-reliable energy cells, robust protective casings, and real-time wireless metrics to empower your micro-mobility conversions across the globe.

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## OFFICIAL GLOBAL SUPPORT NETWORK

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