PRODUCT DATASHEET

60V 30Ah Metal
E-BIKE BATTERY

Samsung INR21700-50G Cells · JBD Smart BMS

Rated 1,800Wh capacity. Built fresh to order and bench-tested before shipping.

DOCUMENT TYPE	Technical Specification & Product Data Sheet
BATTERY MODEL	BOOANT 60V 30Ah Metal eBike Battery

Product Datasheet

60V 30Ah Metal eBike Battery · Samsung INR21700-50G Cells · JBD Smart BMS

1. Overview

A 60V 30Ah (1,800Wh) metal motorcycle lithium-ion battery built with 96 genuine Samsung INR21700-50G cells in a 16S6P configuration, for electric motorcycles, high-power scooters, cargo vehicles and custom electric vehicle projects up to 2,500W. The cells sit in a rugged stainless steel metal housing managed by a JBD smart Bluetooth BMS, and the pack ships with a WATE 67.2V 5A smart charger and a fireproof safety bag. Every pack is built fresh to order and bench-tested before shipping.

2. Key Features

- **Genuine Samsung 50G cells** — 96 authentic Samsung INR21700-50G cells (16S6P) deliver a rated 1,800Wh, with stable voltage under load and no rewrapped or B-grade cells.
- **JBD smart Bluetooth BMS** — 30A, 40A or 50A options matched to motors up to 1,500W, 2,000W or 2,500W, with cell balancing and full protection monitoring via the app.
- **Rugged stainless steel case** — The heavy-duty 1.2 mm stainless steel housing shields cells from violent vibration, sharp road debris and heavy drops, built for electric motorcycles, high-power scooters and cargo vehicles.
- **WATE 67.2V 5A charger included** — A full 0 to 100% charge takes approximately 7 hours, at 0.83A per cell across the 6 parallel groups.
- **Connector of your choice** — QS8 plug, Anderson SB50, XT60F/M, XT90F/M or Wire only, on 10AWG copper leads, matched to your controller.
- **Bench-tested before shipping** — Every pack runs a full charge and discharge test before it leaves, and the test report is available on request. Covered by a 2-year warranty.

3. Technical Specifications

Nominal voltage	60V
Rated capacity	30Ah (1,800Wh)
Cell type & configuration	Samsung INR21700-50G, 96 cells, 16S6P
BMS	JBD smart BMS with Bluetooth: 30A / 40A / 50A
Motor compatibility	Up to 1,500W (30A BMS) / 2,000W (40A BMS) / 2,500W (50A BMS)
Full-charge voltage	67.2V
Charger	WATE 67.2V 5A smart charger, included
Charge time	Approx. 7 hours (0 to 100%)
Weight	Approx. 11.0 kg (variant weight)
Discharge connectors	QS8 plug / Anderson SB50 / XT60F/M / XT90F/M / Wire only (10AWG leads)
App	JBD app (XiaoxiangBMS), iOS & Android
Enclosure	Rugged 1.2 mm stainless steel case, fireproof safety bag included

4. Smart BMS & Bluetooth App

The integrated JBD Bluetooth smart BMS protects the pack against overcharge, over-discharge, overcurrent, short circuit and excessive temperature. Battery voltage, current draw, cell status and temperature can be monitored in real

time through a compatible mobile app.

5. Charging

Charge only with the included WATE 67.2V 5A smart charger, a premium aluminum smart charger. The charge voltage is 67.2V. A full charge takes approximately 7 hours. At 5A across 6 parallel groups, each cell charges at about 0.83A.

6. Enclosure & Fitment

The metal battery enclosure provides improved protection against vibration, impact and demanding riding conditions. Its rigid housing improves structural durability for heavy-duty battery systems used in motorcycle and utility applications. Check your compartment clearance before ordering, as this datasheet does not list pack dimensions.

7. What's Included

Battery pack with your selected BMS rating and discharge connector, WATE 67.2V 5A smart charger, AC power cable (plug matched to your country), fireproof safety bag, discharge lead with your selected connector (10AWG copper leads), and an app download QR code inside the package. The pack is built fresh to order for your selection.

8. Warranty & Support

Covered by the BOOANT 2-year warranty (24 months or 600 cycles to 70% capacity retention, whichever comes first, per the BOOANT warranty policy). Questions about this product: support@booant.com.

Specifications are taken from the product data for this model. Dimensions, discharge cut-off voltage, operating temperature and cycle life are not listed on this product page, so they are omitted here rather than estimated. Weight is taken from the variant weight field (11.0 kg). BOOANT packs are built to order; if your setup needs a different connector or BMS rating, select it on the product page or contact us before ordering.