PRODUCT DATASHEET

72V 30Ah Triangle E-BIKE BATTERY

Samsung INR21700-50G Cells · JBD Smart BMS

Rated 2,160Wh capacity. Built fresh to order and bench-tested before shipping.

DOCUMENT TYPE	Technical Specification & Product Data Sheet
BATTERY MODEL	BOOANT 72V 30Ah Triangle eBike Battery

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1. Overview

A 72V 30Ah (2,160Wh) lithium-ion battery built with 120 genuine Samsung INR21700-50G cells in a 20S6P configuration, for 72V e-bikes, enduro builds and high-power conversion kits up to 3,000W. The cells sit in a sealed blue PVC triangle pack managed by a JBD smart Bluetooth BMS, and the pack ships with an 84V 5A charger and a triangle mounting bag. Every pack is built fresh to order and bench-tested before shipping.

2. Key Features

- **Genuine Samsung 50G cells** — 120 authentic Samsung INR21700-50G cells (20S6P) deliver a rated 2,160Wh, with stable voltage under load and no rewrapped or B-grade cells.
- **JBD smart Bluetooth BMS** — 30A, 50A or 60A options matched to motors up to 1,500W, 2,500W or 3,000W, with cell balancing and full protection monitoring via the app.
- **Lightweight triangle pack** — The sealed PVC pack weighs about 9.0 kg (19.84 lbs), far lighter than a metal case, and a padded triangle mounting bag with frame straps is included.
- **84V 5A fast charger included** — A full 0 to 100% charge takes approximately 7 hours, at a gentle 0.8A per cell group.
- **Connector of your choice** — XT90 / XT90-S, Anderson SB50, QS8-S or XT60 discharge connector pre-soldered on a 10AWG silicone lead, matched to your controller at no extra cost.
- **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	72V
Rated capacity	30Ah (2,160Wh)
Cell type & configuration	Samsung INR21700-50G, 120 cells, 20S6P
BMS	JBD smart BMS with Bluetooth: 30A (90A peak) / 50A (150A peak) / 60A (180A peak)
Motor compatibility	Up to 1,500W (30A BMS) / 2,500W (50A BMS) / 3,000W (60A BMS)
Full-charge voltage	84V
Discharge cut-off voltage	60V
Charger	84V 5A, aluminum case, fan-cooled, included
Charge time	Approx. 7 hours (0 to 100%)
Dimensions	Triangle outline: top 320 / bottom 285 / tall end 235 / short end 90 / corner 70 mm, thickness 75 mm
Weight	Approx. 9.0 kg (19.84 lb)
Discharge connectors	XT90 / XT90-S / Anderson SB50 / QS8-S / XT60 / XT60H (10AWG silicone lead)
App	JBD app (XiaoxiangBMS), iOS & Android
Enclosure	Blue PVC heat-shrink wrap, multi-layer insulation, mounting bag included
Operating temperature	Charge: 0 to 45°C / Discharge: -20 to 60°C

4. Smart BMS & Bluetooth App

The JBD smart BMS monitors voltage, current and temperature in real time and protects the pack against over-charging, over-discharging, over-current, short circuits and over-temperature, with automatic cell balancing to keep the 20 cell groups even. Through the JBD app (XiaoxiangBMS, QR code inside the package) you can view individual cell group voltages, balance status, cycle count and protection history, and remotely switch discharge on or off. There is no display on the pack itself; the app is the dashboard.

5. Charging

Charge only with the included 84V 5A charger, a fan-cooled aluminum-case unit running CC/CV stages and protected by an external replaceable 250V / 10A fuse. The LED shows red while charging (or if a fault is detected) and green when fully charged or in standby. A full charge from near empty (60V) to full (84V) takes approximately 7 hours. At 5A across 6 parallel groups, each cell charges at about 0.8A, a gentle rate that avoids heat stress and protects cycle life.

6. Enclosure & Fitment

Check your frame triangle against the pack outline before ordering: top edge 320 mm, bottom edge 285 mm, tall end 235 mm, short end 90 mm, corner edge 70 mm, thickness 75 mm. Every pack is hand-built, so leave a few millimeters of clearance. The included padded triangle mounting bag straps the pack securely inside the frame triangle, with no separate bracket or rack. The sealed multi-layer PVC wrap handles rain and road spray. Never submerge the pack or clean it with a high-pressure washer.

7. What's Included

Battery pack with your selected BMS rating and discharge connector, 84V 5A smart fast charger, AC power cable (plug matched to your country), triangle mounting bag with frame straps, discharge lead with your selected connector pre-soldered (10AWG silicone wire), and an app 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. 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.