PRODUCT DATASHEET

24V 30Ah LiFePO4
MARINE BATTERY

LTT 32700 LiFePO4 Cells · JBD Smart BMS

True 768Wh capacity. Built fresh to order and bench-tested before shipping.

DOCUMENT TYPE	Technical Specification & Product Data Sheet
BATTERY MODEL	BOOANT 24V 30Ah LiFePO4 Battery

Product Datasheet

24V 30Ah LiFePO4 Battery · LTT 32700 LiFePO4 Cells · JBD Smart BMS

1. Overview

A 24V 30Ah (768Wh) LiFePO4 deep-cycle marine battery built with 40 LTT 32700 cells in an 8S5P configuration. A JBD smart Bluetooth BMS manages the pack, and a matched 29.2V 5A smart charger is included. Two BMS ratings cover everything from fish finders and boat electronics to 24V trolling motors. Every pack is built fresh to order and bench-tested before shipping.

2. Key Features

- **LTT 32700 LiFePO4 cells** — 40 genuine LTT 32700 3.2V 6,000mAh Grade-A cells (8S5P) deliver a true 768Wh, with the thermal stability and long cycle life LiFePO4 is known for.
- **JBD smart Bluetooth BMS** — Real-time monitoring of cell voltages, charge level, current and temperature in the JBD app, with remote charge and discharge switches.
- **Two ratings, matched to your load** — 30A for fish finders, lights and accessories, or 50A for 24V trolling motors. Both ratings are continuous, with 3x surge for motor start-up.
- **29.2V 5A smart charger included** — Fan-cooled metal-case LiFePO4 charger matched to the pack. A full charge takes approximately 7 hours.
- **Sealed for marine use** — Epoxy insulation boards around the cell banks, blue PVC wrap, and waterproof sealant on both end caps against deck spray and bilge moisture.
- **Bench-tested before shipping** — Every pack runs a full charge and discharge test before it leaves, and is covered by a 2-year warranty.

3. Technical Specifications

Nominal voltage	25.6V (24V system)
Rated capacity	30Ah (768Wh)
Cell type & configuration	LTT 32700 LiFePO4, 3.2V 6,000mAh, 40 cells, 8S5P
BMS	JBD smart BMS with Bluetooth: 30A (90A peak) / 50A (150A peak)
Application	30A: fish finders, lights & accessories / 50A: 24V trolling motors
Full-charge voltage	29.2V
Discharge cut-off voltage	20.0V
Charger	29.2V 5A smart charger, fan-cooled, included
Charge time	Approx. 7 hours (0 to 100%)
Dimensions	280 × 170 × 75 mm (11.0 × 6.7 × 3.0 in)
Weight	Approx. 6.0 kg (13.2 lb)
Discharge connectors	QS8 / Anderson / XT90 / XT60 / Wire only
App	JBD app (XiaoxiangBMS), iOS & Android
Enclosure	Blue PVC wrap, epoxy insulation boards, waterproof end seals
Operating temperature	Charge: 0 to 45°C / Discharge: -20 to 60°C

4. Smart BMS & Bluetooth App

The JBD smart BMS is configured for 8S LiFePO4 and monitors voltage, current and temperature in real time, protecting the pack against over-charging, over-discharging, over-current and short circuits, with automatic cell balancing across the 8 cell groups. In the JBD app (XiaoxiangBMS) you can view individual cell group voltages, charge level and cycle data, and switch charging and discharging on or off remotely.

5. Charging

Charge only with the included 29.2V 5A LiFePO4 charger. Never use a lead-acid charger or a lithium-ion (ternary) charger: the voltage profile is different and will damage the pack or trip the BMS. The charger LED is red while charging and turns green when the pack is fully charged to 29.2V. At 5A across 5 parallel groups, each cell charges at about 1A, a gentle rate that protects cycle life.

6. Enclosure & Marine Use

The cell banks are insulated with epoxy boards to prevent vibration wear and short circuits, wrapped in blue PVC heat-shrink, and sealed with waterproof sealant on the top and bottom caps. The pack handles deck spray, rain and bilge moisture. It is not submersible: never immerse the pack or clean it with a high-pressure washer. Check the 280 × 170 × 75 mm footprint against your battery compartment before ordering.

7. What's Included

Battery pack with your selected BMS rating and discharge connector, 29.2V 5A smart fast charger, AC power cable with the plug for your region, and a pre-soldered discharge extension cable. The pack is built fresh to order for your selection.

8. Warranty & Support

Covered by the BOOANT 2-year warranty (24 months or 2,000 cycles at 80% depth of discharge, 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.