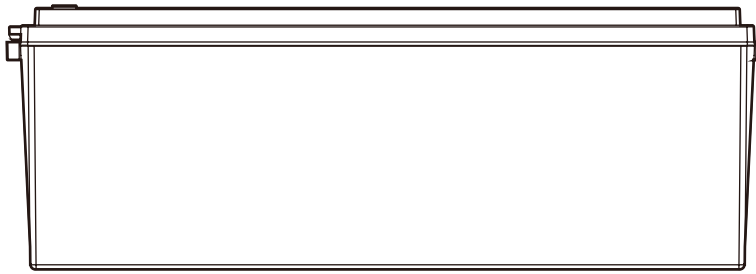
LIFEPO4 BATTERY

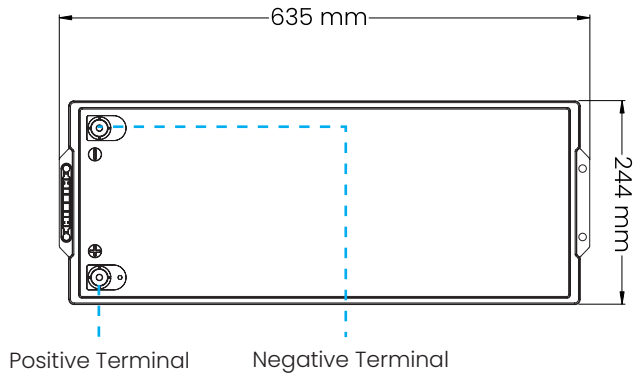
USER MANUAL

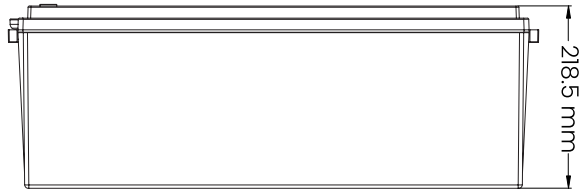
24V324Ah



PRODUCT OVERVIEW

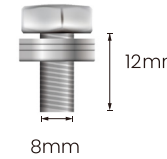
24V 324Ah Battery





ADDITIONAL COMPONENTS

M8 Terminal Bolts



The terminal bolts are used to secure multiple cable lugs to a single battery terminal. The bolts can be replaced with M8 bolts of other lengths based on actual needs.

Insulating Caps for Bolts

Cover the battery with the insulating caps after tightening the bolts.

APP CONNECTION

1. Download the APP and register your account.

JBD BMS

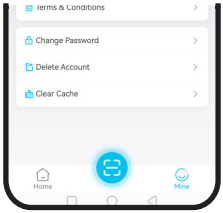
GET IT ON Google Play

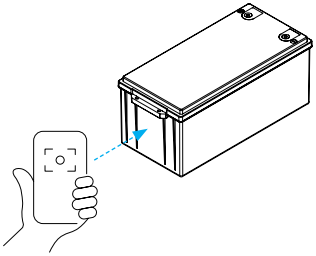
Download on the App Store

2. Device Pairing

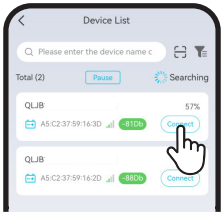
Log in to the APP, scan the side QR code of the product for successful pairing, and realize real-time monitoring of device status.

Step 1





Step 2



Step 3



SPECIFICATIONS

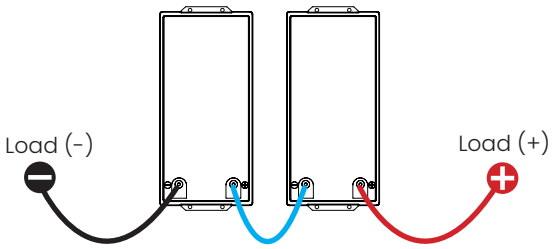
Model	24V324Ah
Battery Type	LiFePO4
Rated Energy	8294.4 Wh
Nominal Voltage	25.6 V
Rated Capacity	324 Ah
Charge Cut-off Voltage	28 - 29.2 V
Discharge Cut-off Voltage	21.6 V
Standard Charge Current	157 A
Standard Discharge Current	157 A (MAX 200 A)
Cycle Life	≥6000 Cycle , 70% SOH 25°C ≥3000 Cycle , 70% SOH 45°C
Charging Temperature	-10 – 60°C
Discharging Temperature	-35 – 65°C
Waterproof Grade	IP65
Weights	49.5 kg
Dimensions	635 × 244 × 218 mm

SERIES / PARALLEL CONNECTION

Series Connection

- Use batteries of the same model only
- Max 2 batteries in series (25.6V system)
- Ensure voltage difference < 0.5V

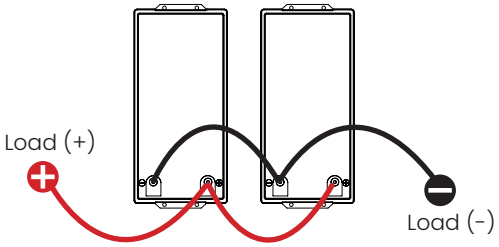
Connect Batteries in Series: ⊕ to ⊖



Parallel Connection

- Max 2 batteries in parallel
- Voltage difference must be < 0.5V
- Use proper busbars

- **Connect Batteries in Parallel:** ⊕ to ⊕ ⊖ to ⊖



Combined Series & Parallel

When using batteries in both series and parallel, follow the structure and wiring rules strictly to ensure proper system operation and safety.

Configuration Requirements

- Max 4 batteries in combined series & parallel
- All batteries must be of the same model and specifications.
- The voltage of each battery (or group) must be equal, with a difference of less

than 0.5V.

- Batteries should first be connected in parallel to form groups, and then these groups are connected in series.

Wiring Method

Parallel connection using busbars:

- All positive terminals of the odd-numbered batteries (1, 3) are connected together via a positive busbar.
- All negative terminals of the even-numbered batteries (2, 4) are connected together via a negative busbar.

Divide batteries into odd-numbered group (No.1, 3) and even-numbered group (No.2, 4).

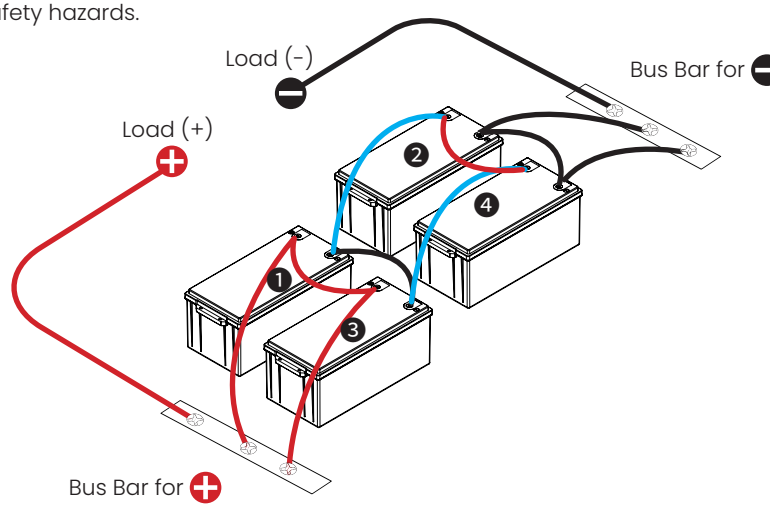
- Connect batteries in an alternating series pattern:
- The negative terminal of No.1 connects to the positive terminal of No.2.
- The negative terminal of No.3 connects to the positive terminal of No.4.
- Continue this pattern to form internal series connections.

Load Connection Rules

- The external load positive (+) must be connected ONLY to the main positive busbar
- The external load negative (-) must be connected ONLY to the main negative busbar

⚠ Critical Warning

- The intermediate connection points between series batteries (internal nodes) must NOT be connected to any load
- Do NOT reverse polarity or connect batteries in the wrong sequence
- Failure to follow these rules may result in system malfunction, imbalance, or safety hazards.



USAGE AND MAINTENANCE GUIDE

1. Storage Specifications

Environmental Requirements:

- Temperature: 20±5°C
- Humidity: 65±20%RH
- Environment: Clean, dry, and well-ventilated indoor area.
- Safety: Avoid contact with corrosive liquids and keep away from ignition sources and heat.

Battery State Maintenance:

- Charge Level: Maintain at approximately 50% ~ 60%.
- Charging Cycle: To prevent over-discharge, recharge approximately every 15 days during storage, for about 2-3 hours each time.

2. Maintenance and Care

1. Initial Use: The battery can reach its maximum capacity after 3-5 cycles of use.
2. Operating Environment: Use in an air-circulated, dry environment and avoid proximity to ignition sources.
3. Operating Temperature: The optimal operating temperature range is 15°C ~ 35°C. Performance may be affected outside this range.
4. Avoid Short Circuit: Do not short-circuit the positive and negative terminals to prevent danger.
5. Cleaning Method: Do not clean the battery casing with organic solvents.
6. Accident Handling: In case of an accident, use carbon dioxide fire extinguishers, carbon tetrachloride, sand, or other appropriate firefighting equipment.
7. Fault Handling: If the battery fails, please send it to an authorized manufacturer's service point or relevant agency for proper disposal. Do not discard it carelessly.

3. Precautions During Transportation

The following regulations must be strictly adhered to during transportation via automobiles, trains, airplanes, and other means: