LIVALL Powerful Edition

LIVALL PikaBoost 2 E-Bike Rear Wheel Conversion Kit User Manual

Model: Powerful Edition
Brand: LIVALL

1. Product Overview

The LIVALL PikaBoost 2 is an innovative E-Bike Rear Wheel Conversion Kit designed to transform your traditional bicycle into an electric bike. This powerful edition features a robust 220Wh battery, integrated LED lighting for enhanced visibility, and smart app control for a customized riding experience. It offers a practical and efficient solution for cyclists seeking electric assistance without purchasing an entirely new e-bike.



Image: The LIVALL PikaBoost 2 unit, showcasing its compact design and integrated rear wheel.

2. Safety Information

Please read and understand all safety instructions before operating the PikaBoost 2. Failure to do so may result in injury or damage to the product.

- **Pre-Ride Checks:** Always ensure the PikaBoost 2 is securely mounted and all connections are firm before each ride. Check tire pressure and brake functionality.
- **Automatic Shut-off:** The motor is designed to shut off automatically if the built-in gyroscope detects a tilt over 30 degrees, enhancing safety on uneven terrain or during sharp turns.
- **SOS Alert:** If the unit detects a tilt exceeding 60 degrees, an SOS alert function is triggered, which can be configured via the app.
- **Road Safety:** Always wear a helmet and appropriate safety gear. Obey all local traffic laws and regulations. Be aware of your surroundings.
- **Battery Safety:** Use only the provided charging equipment. Do not expose the battery to extreme temperatures, direct sunlight, or moisture. Do not puncture or disassemble the battery.

3. Package Contents

Verify that all components are present in your package:

- LIVALL PikaBoost 2 E-bike Conversion Kit Unit
- 220Wh Battery (integrated or separate, depending on model)
- LED Control Unit
- Mounting Hardware (brackets, straps, etc.)
- Charging Cable
- Quick Guide / User Manual



Image: All components included in the LIVALL PikaBoost 2 package, including the main unit, battery, control unit, and cables.

4. Compatibility Guide

The PikaBoost 2 is designed for broad compatibility with various bicycle types. Please refer to the table below to ensure your bike is suitable:

Category	Requirement
Bike Models	Most common hardtail bikes (mountain bikes, road bikes, hybrid bikes, folding bikes)
Wheel Size	35.6–73.7 cm / 14–29 inches
Seat Tube Type	Round tube

Category	Requirement
Seat Tube Length	Over 50 mm / 1.97 inches
Seat Tube Diameter	25–35 mm / 0.98–1.38 inches
Tire Width (V-shaped)	25–65 mm / 1.0–2.6 inches
Tire Width (Road)	23–32 mm / 0.9–1.3 inches
Tire Width (Mountain)	45–65 mm / 1.8–2.6 inches

Note: Not suitable for tricycles, wheelchairs, D-shaped seat tubes, carbon fiber seat posts, or rear-suspension bikes.



Image: Detailed compatibility guide for various bike models, wheel sizes, seat tube dimensions, and tire widths.

5. Setup and Installation

The LIVALL PikaBoost 2 is designed for quick and secure installation on your bike's rear wheel without the need for complex wiring. Follow these general steps:

1. **Prepare Your Bike:** Ensure your bike is stable, preferably on a stand. Clean the area around the rear wheel and seat tube where the PikaBoost 2 will be mounted.
2. **Attach Mounting Bracket:** Secure the provided mounting bracket to your bike's seat tube according to the instructions in the quick guide. Ensure it is firmly tightened.
3. **Mount PikaBoost 2 Unit:** Slide the PikaBoost 2 unit onto the mounting bracket until it clicks securely into place. The unit's wheel should rest against your bike's rear tire.
4. **Adjust Position:** Adjust the unit's position to ensure optimal contact between the PikaBoost 2 wheel and your bike's tire. There should be sufficient friction for power transfer.
5. **Initial Calibration (App):** Connect the PikaBoost 2 to the LIVALL app on your smartphone for automatic installation and calibration. This ensures proper functionality and alignment.



Image: The LIVALL PikaBoost 2 unit securely installed on the rear wheel of a road bike, ready for use.



Image: A close-up view of the PikaBoost 2 unit attached to a bicycle, highlighting its integration.

6. Battery Information and Charging

The PikaBoost 2 features a durable and long-lasting battery with advanced management systems for safety and performance.

- **Battery Capacity:** The Powerful Edition comes with a 220Wh battery, offering an impressive range of up to 70km (43 miles) under ideal conditions.
- **Charging Options:** You can charge the PikaBoost 2 directly via the tail port or remove the battery for separate charging. It supports dual-way fast charging.
- **Power Bank Functionality:** The battery can also function as a power bank, allowing you to charge your other devices on the go.
- **Battery Management System (BMS):** A multi-layered BMS ensures safety, including dual protection, charging

protection, and discharge protection.

- **Charge Level Indicator:** An external indicator on the unit shows the current charge level.

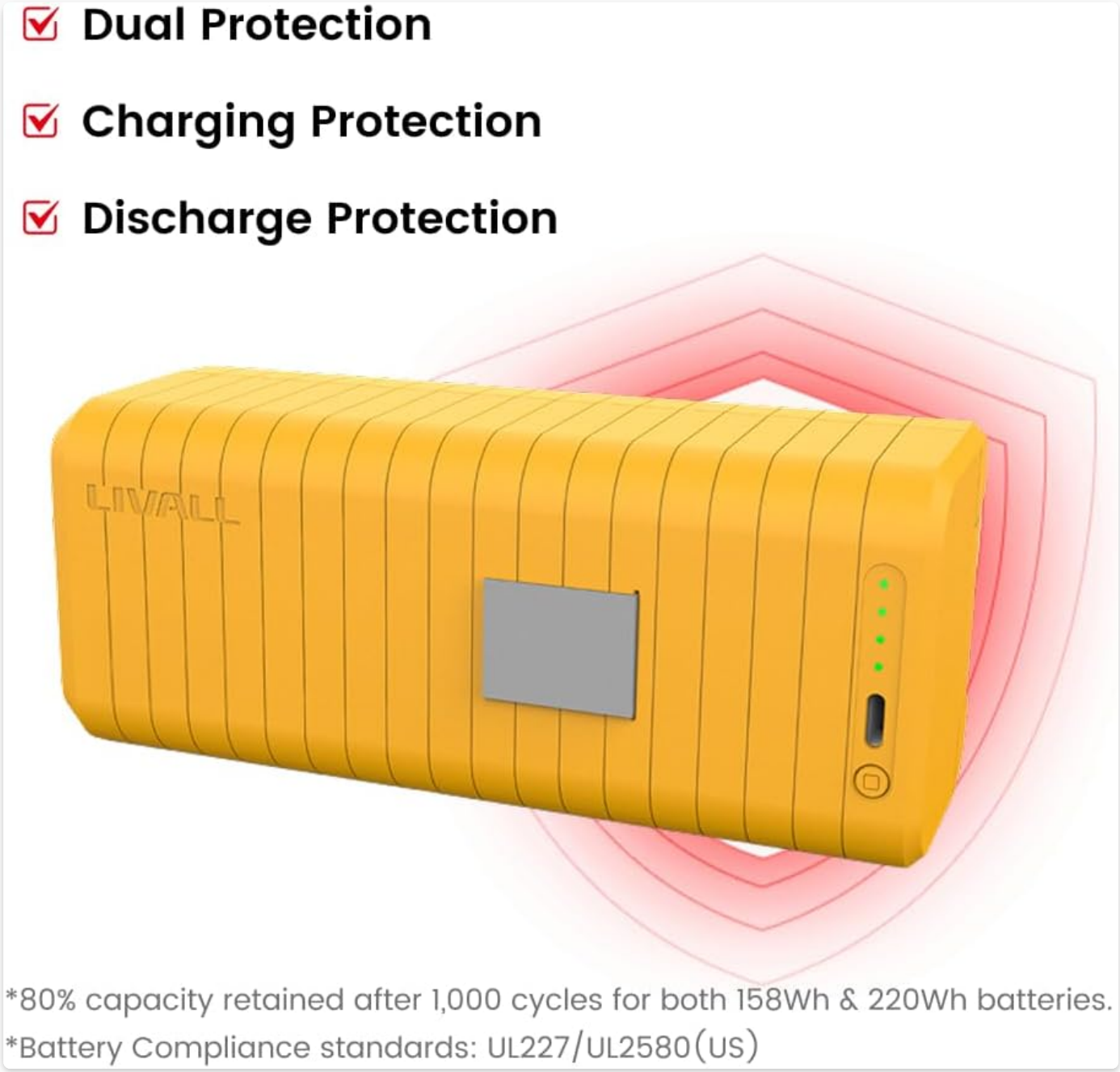


Image: The PikaBoost 2 battery unit, highlighting its dual, charging, and discharge protection features.

7. Operating Instructions

The PikaBoost 2 offers smart connectivity and app control to customize your riding experience.

- **Power On/Off:** Refer to the quick guide for specific power button location and operation.
- **App Connection:** Download the official LIVALL app from your device's app store. Enable Bluetooth on your smartphone and follow the in-app instructions to connect to your PikaBoost 2.
- **Riding Modes:** The app allows you to switch between 4 distinct riding modes to cater to diverse riding styles:
  - **Standby Status:** Unit is on but not providing assistance.
  - **Assist Mode:** Provides electric assistance based on your pedaling effort.

- **Cruise Mode:** Maintains a set speed without continuous pedaling.
- **Workout Mode:** Designed for fitness, potentially offering resistance or specific power profiles.

- **Monitoring:** Use the app to monitor speed, battery life, distance, and other vital statistics.
- **Group Features:** The app may allow you to create groups with friends for shared rides and tracking.



Image: The PikaBoost 2 installed on a bike, illustrating the different riding modes available via the app.

8. Maintenance

Regular maintenance ensures the longevity and optimal performance of your PikaBoost 2.

- **Tire Durability:** The V-shape tire on the PikaBoost 2 unit is durable and designed to last between 3,000 to 5,000 km under normal use. Inspect it regularly for wear and tear.
- **Cleaning:** Wipe the unit clean with a damp cloth after rides, especially if exposed to dirt or mud. Avoid using harsh

chemicals or abrasive materials.

- **Battery Care:** Store the battery in a cool, dry place when not in use. If storing for extended periods, ensure it has a partial charge (around 50-60%) and recharge it every few months to prevent deep discharge.
- **Mounting Check:** Periodically check that the mounting hardware is secure and free from corrosion.
- **Software Updates:** Keep the LIVALL app and PikaBoost 2 firmware updated to ensure the best performance and access to new features.

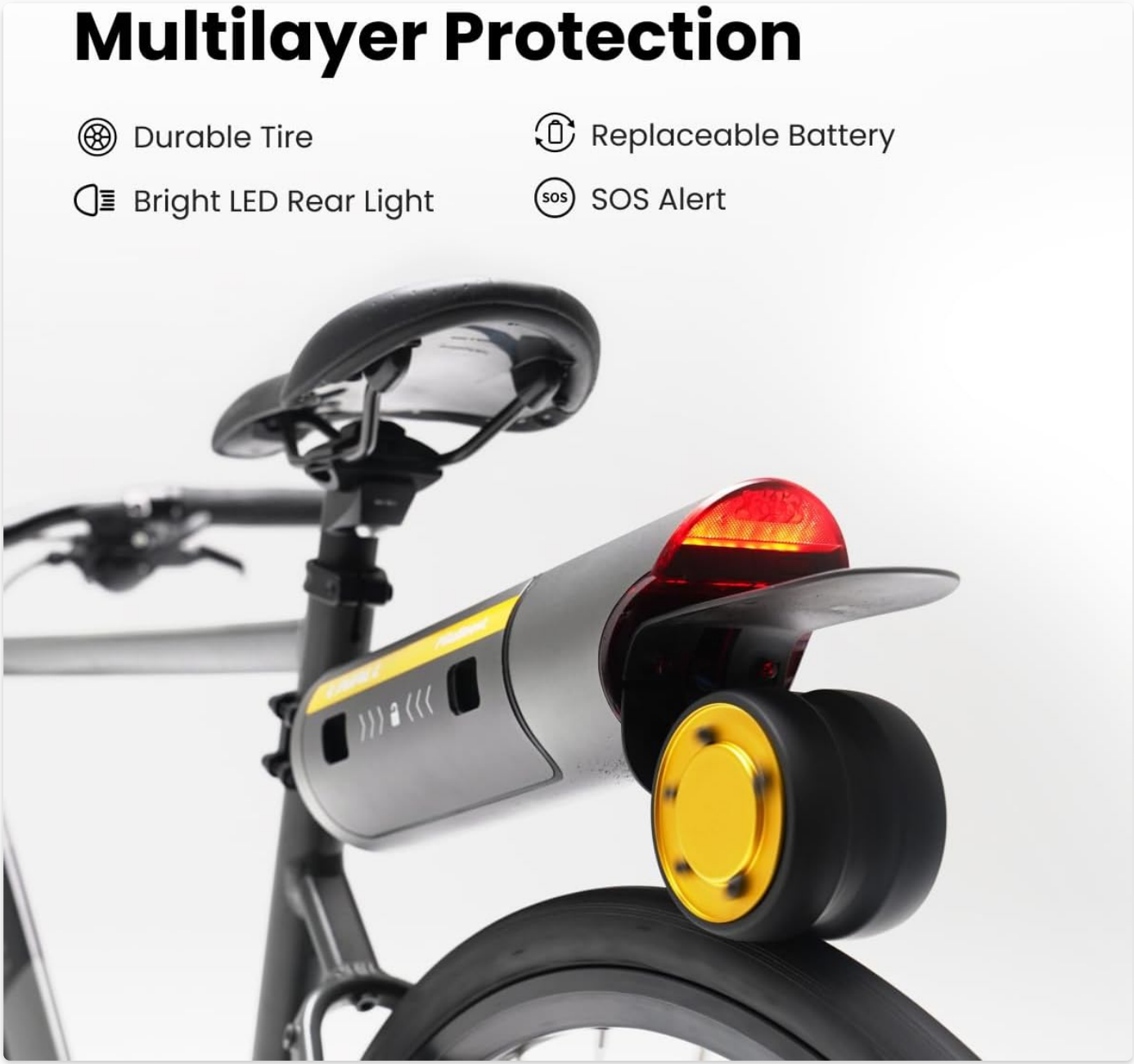


Image: Features of the PikaBoost 2 including durable tire, replaceable battery, bright LED rear light, and SOS alert.

9. Troubleshooting

If you encounter issues with your PikaBoost 2, try the following common troubleshooting steps. For more complex problems, the app offers remote troubleshooting functions.

Problem	Possible Cause / Solution

Problem	Possible Cause / Solution
Unit not powering on	Battery is low or depleted. Charge the battery. Ensure the power button is pressed correctly.
No electric assistance	Check battery level. Ensure the unit is securely mounted and making proper contact with the bike tire. Verify riding mode in the app (e.g., not in Standby).
App not connecting	Ensure Bluetooth is enabled on your phone. Restart the PikaBoost 2 unit and the app. Make sure the app is updated to the latest version.
Unusual noises or vibrations	Check for debris caught in the unit's wheel or between the unit and bike tire. Ensure all mounting hardware is tight. If persists, contact support.
LED lights not working	Check app settings for light control. Ensure unit is powered on and battery has sufficient charge.

10. Specifications

Feature	Detail
Model Number	Powerful Edition
Brand	LIVALL
Parcel Dimensions	44 x 32.4 x 13.4 cm
Item Weight	3.5 kg
Battery Type	Lithium Ion (1 required)
Wattage	220 watts
Bike Type Compatibility	Road Bike, Electric Bike (conversion)
Brake Type	Drum
Colour	Dark Gray
Frame Material	Aluminum
Material	Aluminum, Plastic
Number of Speeds	3 (modes)
Power Source	Battery Powered
Special Features	Rear Wheel Conversion, App Control, Portable, Quick Installation, Rechargeable, Battery Powered
Usage	Road Cycling, Mountain Biking, Commuting

Feature	Detail
Suspension	Rear
Included Components	E-bike Conversion Kit, 220wh Battery, Led Control Unit, Mounting Hardware
Date First Available	March 23 2025
Manufacturer	Livall

11. Warranty and Support

For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official LIVALL website. LIVALL provides customer support for product inquiries, technical assistance, and warranty claims.

Manufacturer: Livall

Place of Business: Livall Customer Support

It is recommended to register your product upon purchase to facilitate any future support or warranty claims.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Why does my LIVALL PikaBoost 2 flash its lights and automatically shut down when I try to turn it on?

If your LIVALL PikaBoost 2 is flashing its lights and automatically shutting down, it is likely due to a safety trigger or a power issue. Please check the following:Battery Level: The most common cause...

Read full answer