Funhang EB-S1

Funhang EB-S1 Electric Fat Tire Mountain Bike User Manual

Model: EB-S1

1. Introduction

Thank you for choosing the Funhang EB-S1 Electric Fat Tire Mountain Bike. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your new ebike. Please read this manual thoroughly before your first ride and keep it for future reference. Proper understanding and adherence to these instructions will ensure optimal performance and longevity of your bicycle.

Safety Warnings

- Always wear a helmet and appropriate safety gear when riding.
- Familiarize yourself with local traffic laws and regulations.
- Perform a pre-ride inspection before each use, checking brakes, tires, battery, and all fasteners.
- Do not ride under the influence of alcohol or drugs.
- Avoid riding in adverse weather conditions or on excessively slippery surfaces.
- Ensure the battery is securely locked in place before riding.
- The Funhang EB-S1 is UL 2849 certified for the entire ebike and UL 2271 certified for the Li-ion battery, indicating compliance with safety standards.

2. Product Overview

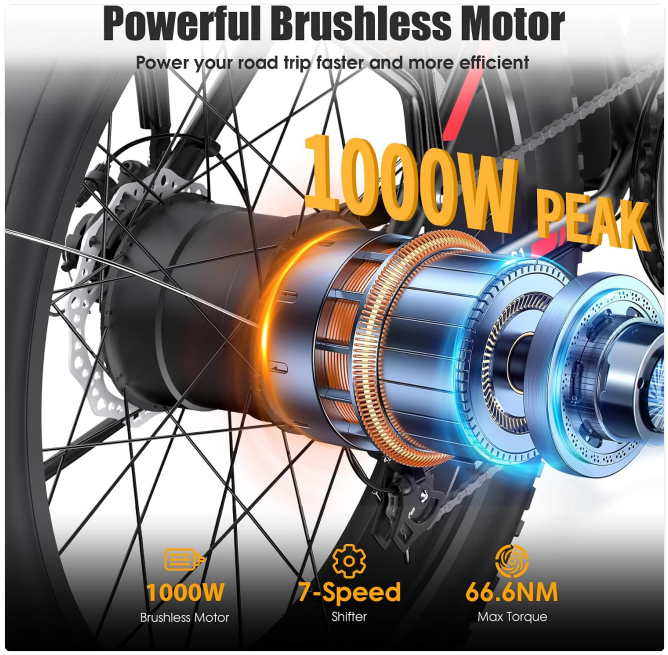
The Funhang EB-S1 is a versatile electric fat tire mountain bike designed for various terrains, offering a powerful motor, long-range battery, and multiple riding modes.

Key Features

- **Motor:** 1000W Peak Brushless Motor (500W continuous) for efficient power delivery.
- **Battery:** 48V 13AH (624Wh) IPX5 waterproof removable Li-ion battery.
- **Range:** Up to 55-60 miles in pedal assist mode, 28-30 miles in full electric mode.
- **Tires:** 26" x 4.0" puncture-resistant fat tires for superior traction.

- **Suspension:** Front suspension fork for a comfortable ride on varied terrain.
- **Brakes:** 180mm dual disc brakes for reliable stopping power.
- **Gears:** 7-speed shifting system.
- **Display:** Smart LCD display showing battery level, speed, PAS level, and distance.
- **Safety:** Upgraded headlight, taillight, and unique turn signals.
- **Convenience:** Sturdy rear cargo rack and adjustable seat.

Components



Powerful Brushless Motor: The rear hub houses a 1000W peak (500W continuous) brushless motor, providing strong acceleration and hill-climbing capability.



Large Capacity Removable Battery: The 48V 13AH Li-ion battery is integrated into the frame, offering extended range and easy removal for charging.



Fat Tires and Front Suspension: 26x4 inch fat tires provide stability and grip, complemented by a front suspension fork for shock absorption.



Control and Safety Features: This image shows the LCD display, 7-speed shifter, integrated headlight, taillight with turn signals, and the sturdy rear cargo rack.

3. Setup

Your Funhang EB-S1 ebike comes 85% pre-assembled. The following steps outline the completion of assembly and initial preparation.

Assembly Instructions

1. **Unpacking:** Carefully remove the ebike and all components from the packaging. Retain the packaging for potential future transport or returns.
2. **Front Wheel Installation:** Attach the front wheel, ensuring the disc brake rotor is correctly seated within the caliper.

Secure the quick-release skewer or axle nuts firmly.

3. **Handlebar Installation:** Mount the handlebar onto the stem, aligning it properly and tightening the stem bolts evenly. Ensure brake levers and shifter are in comfortable positions.
4. **Pedal Installation:** Identify the left (L) and right (R) pedals. Apply a small amount of grease to the threads and screw them into the crank arms. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise. Tighten securely with a wrench.
5. **Seat Post Installation:** Insert the seat post into the frame, ensuring it is above the minimum insertion line. Adjust the seat height for comfortable pedaling and secure the quick-release clamp.
6. **Fender and Rack Installation:** Attach the front and rear fenders, and the rear cargo rack, using the provided hardware. Ensure they are securely fastened and do not interfere with wheel rotation or other components.
7. **Final Inspection:** Double-check all bolts, nuts, and quick releases for tightness. Ensure brake levers are firm and the chain is properly seated on the gears.

Battery Charging

Before your first ride, fully charge the battery. The charging time is approximately 6.5 hours.

- Locate the charging port on the battery.
- Connect the charger to the battery, then plug the charger into a standard wall outlet.
- The charger indicator light will typically show red during charging and turn green when fully charged.
- Once fully charged, disconnect the charger from the outlet first, then from the battery.
- Ensure the battery is securely locked into the frame before riding.

4. Operation

Understanding the various riding modes and controls will enhance your riding experience.

Riding Modes



Five Riding Modes: The EB-S1 offers versatile riding options including Bicycle, Pedal Assist, Throttle-Only, Cruise, and Booster modes.

- **Normal Bike Mode:** Ride as a traditional bicycle without electric assistance.
- **Pedal Assist Mode (PAS):** Provides electric assistance while you pedal. There are 5 levels of assistance (PAS 1-5), which can be selected via the LCD display controls. Higher levels provide more assistance.
- **Throttle Mode:** Twist the throttle grip to engage the motor and propel the bike without pedaling. This mode is ideal for quick acceleration or when you need a break from pedaling.
- **Booster Mode:** Allows the ebike to travel at approximately 3.73 mph (6 km/h) without pedaling, useful for walking the bike uphill or through crowded areas.
- **Cruise Mode:** Maintain a desired speed without continuously holding the throttle. Activate by holding the throttle in position for a few seconds. Deactivate by applying brakes or twisting the throttle again.

LCD Display and Controls

The smart LCD display provides real-time information and allows you to control the ebike's functions.

- **Power Button:** Press and hold to turn the ebike system on/off.

- **Mode/Info Button:** Short press to cycle through display information (e.g., Odometer, Trip Distance).
- **+/- Buttons:** Use to adjust the Pedal Assist System (PAS) level (1-5).
- **Battery Indicator:** Shows the current battery charge level.
- **Speed Display:** Shows current riding speed.

Gear Shifting

The 7-speed gear system allows you to adapt to different terrains and riding conditions.

- Use the twist shifter on the right handlebar to change gears.
- Shift to lower gears (larger cogs) for easier pedaling on inclines.
- Shift to higher gears (smaller cogs) for faster speeds on flat terrain or descents.
- Always pedal lightly while shifting to ensure smooth gear changes and prevent damage to the drivetrain.

5. Maintenance

Regular maintenance is crucial for the safety, performance, and lifespan of your Funhang EB-S1 ebike.

Battery Care

- **Charging:** Charge the battery fully after each ride, or at least once every two months if not in use, to maintain battery health.
- **Storage:** Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is charged to 50-70%.
- **Cleaning:** Wipe the battery with a damp cloth. Do not immerse it in water or use high-pressure washers.
- **Safety:** Do not attempt to open or modify the battery pack. Use only the original charger provided.

General Maintenance

- **Tires:** Check tire pressure before each ride. The recommended pressure is typically indicated on the tire sidewall. Inspect tires for wear, cuts, or punctures.
- **Brakes:** Regularly check brake pads for wear and ensure brake levers provide firm and responsive stopping power. Adjust or replace pads as needed.
- **Chain:** Keep the chain clean and lubricated. A well-maintained chain ensures smooth shifting and extends drivetrain life.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases for tightness. Loose components can lead to accidents.
- **Cleaning:** Clean your ebike regularly with a damp cloth and mild soap. Avoid spraying water directly onto electrical components.
- **Professional Service:** For complex repairs or adjustments, it is recommended to consult a qualified bicycle mechanic.

6. Troubleshooting

This section addresses common issues you might encounter with your Funhang EB-S1 ebike.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Ebike does not power on	Battery not charged or not properly seated; Power button not pressed correctly; Loose electrical connection.	Charge battery fully; Ensure battery is securely locked; Press and hold power button; Check all visible connections.
Motor not assisting	PAS level set to 0; Throttle not engaged; Brake levers engaged (safety cut-off); Motor cable disconnected.	Increase PAS level; Twist throttle fully; Release brake levers; Check motor cable connection.
Short battery range	Low tire pressure; High PAS level/frequent throttle use; Heavy load; Headwinds/uphill riding; Cold weather.	Inflate tires to recommended pressure; Use lower PAS levels; Reduce load; Ride efficiently; Battery performance is reduced in cold weather.
Brakes feel spongy or weak	Brake pads worn; Cable stretch; Air in hydraulic system (if applicable); Misaligned caliper.	Inspect and replace brake pads; Adjust brake cable tension; Consult a mechanic for hydraulic brake issues; Realign caliper.
Gears not shifting smoothly	Derailleur out of adjustment; Dirty/dry chain; Bent hanger.	Adjust derailleur; Clean and lubricate chain; Consult a mechanic for bent hanger.

If you encounter an issue not listed here or cannot resolve a problem, please contact Funhang customer support for assistance.

7. Specifications

Detailed technical specifications for the Funhang EB-S1 Electric Fat Tire Mountain Bike.



Ebike Dimensions and Rider Fit: This image illustrates the overall dimensions of the EB-S1 and the recommended rider height range.

Feature	Detail
Model Number	EB-S1
Motor	500W Brushless (1000W Peak)
Battery	48V 13AH (624Wh) Li-ion, IPX5 Waterproof
Charging Time	Approx. 6.5 hours
Max Range (PAS)	55-60 miles
Max Range (Full Electric)	28-30 miles
Frame Material	Carbon Steel

Feature	Detail
Wheel Size	26 inches
Tire Size	26" x 4.0" Fat Tires
Suspension	Front Suspension Fork
Brakes	180mm Dual Disc Brakes
Gears	7-Speed Shifting
Ebike Weight	68.3 lbs (31 kg)
Max Load Capacity	330 lbs (150 kg)
Recommended Rider Height	5'3" - 6'1" (160 cm - 185 cm)
Certifications	UL 2849 (Ebike), UL 2271 (Li-ion Battery)
Included Components	Ebike, Charger, Cargo Rack, Fenders, Tool Kit, User Manual

8. Warranty and Support

Funhang is committed to providing high-quality products and customer satisfaction.

Warranty Information

The Funhang EB-S1 Electric Fat Tire Mountain Bike comes with a**12-month limited hardware replacement warranty**. This warranty covers manufacturing defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, accidents, unauthorized modifications, or normal wear and tear.

Customer Support

For any inquiries, technical support, or warranty claims, please contact Funhang customer service. When contacting support, please provide your order number and a detailed description of the issue, including photos or videos if applicable. Our team aims to respond within 24 hours.

Contact Information: Please refer to your purchase platform or the included documentation for specific contact methods (e.g., Amazon seller messaging).

Returns: If you are not satisfied with your purchase, please notify us through your purchase platform before returning the item. Ensure the item and packaging are undamaged. We will assist you with the return process.

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.

Name

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Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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