

BAFANG BD-EB1305-HL

BAFANG Ebike Battery User Manual

Model: BD-EB1305-HL (48V17Ah)

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient use, charging, and maintenance of your BAFANG Lithium-ion Ebike Battery, model BD-EB1305-HL (48V17Ah). Please read this manual thoroughly before using the battery to ensure optimal performance and longevity.

2. SAFETY INFORMATION

Your safety is paramount. Adhere to the following guidelines:

- Always use the provided charger. Using an incompatible charger can damage the battery and pose a fire risk.
- Do not expose the battery to extreme temperatures, direct sunlight, or open flames.
- Avoid storing the battery in humid environments or allowing it to get wet for extended periods. While the battery has waterproof features, prolonged exposure to water is not recommended.
- Do not disassemble, puncture, or modify the battery pack. This can lead to serious injury or fire.
- Keep the battery away from children and pets.
- If the battery shows signs of damage, overheating, or emits an unusual odor, discontinue use immediately and contact support.
- Ensure proper ventilation during charging.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- BAFANG Ebike Battery (BD-EB1305-HL, 48V17Ah) x 1
- Bottom Bracket (Mounting Base) x 1
- 2A Fast Charger x 1
- Key x 1 (typically a pair of keys)

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your BAFANG Ebike Battery.



BATTERY LEVEL LIGHT

Press the button, the light will turn on.

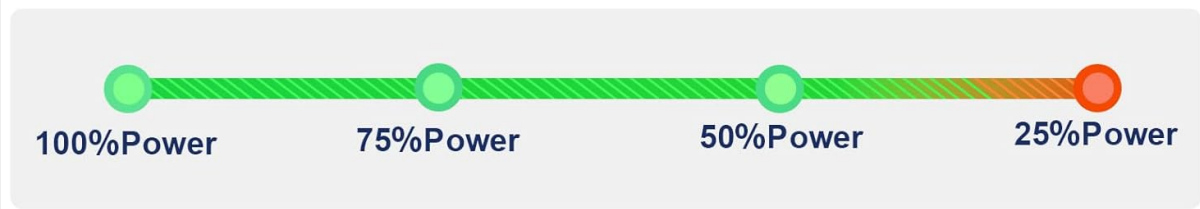


Figure 4.1: Overview of the BAFANG Ebike Battery, including the battery pack, mounting base, 2A fast charger, and a set of keys for the anti-theft lock.



Figure 4.2: Detailed view of key battery features. This image highlights the integrated safe lock mechanism, the XLR charging port for secure and efficient charging, and the power indicator lights that display the current battery level.

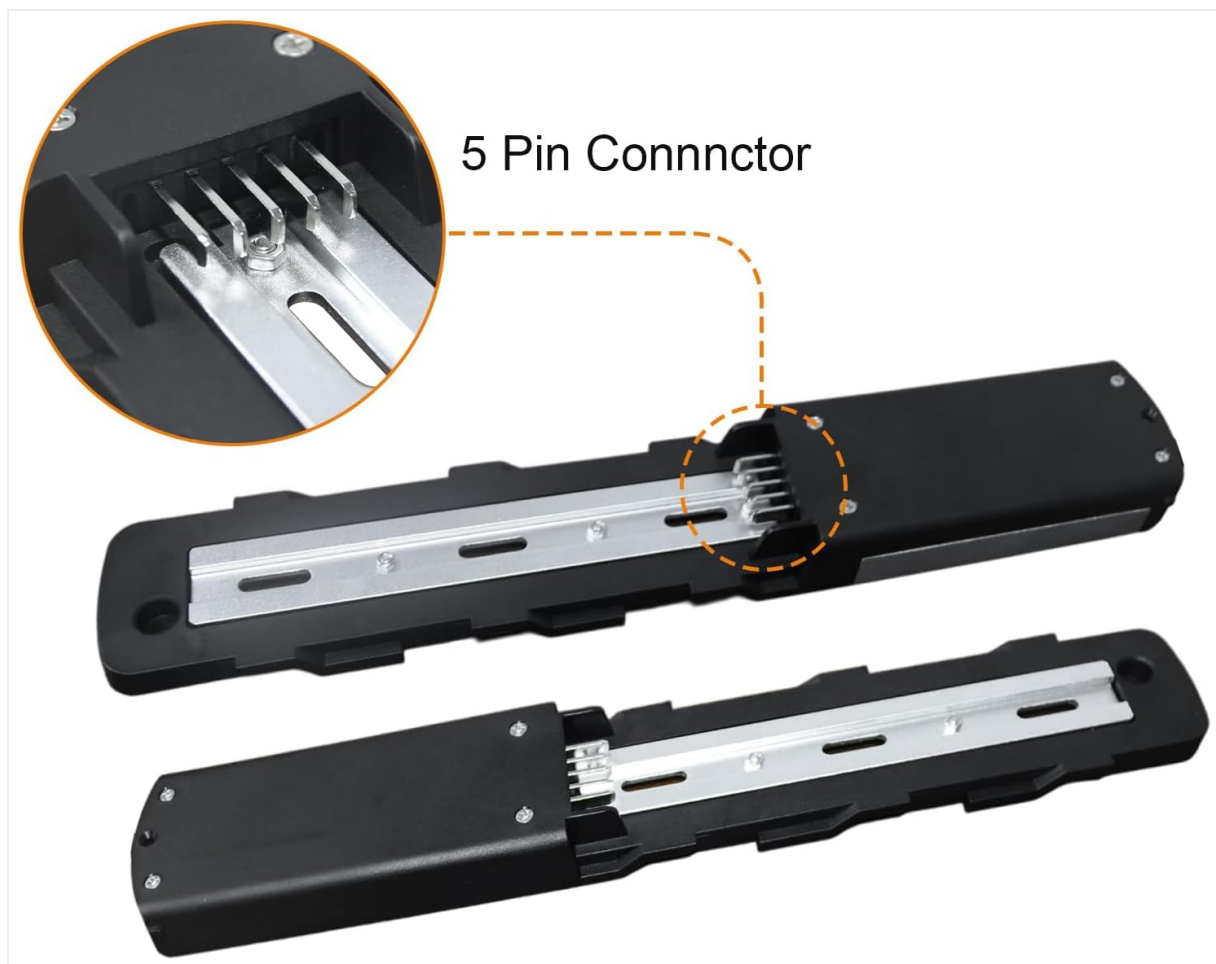


Figure 4.3: Close-up of the 5-pin connector located on the battery's mounting base. This connector ensures a secure and reliable electrical connection between the battery and your ebike's motor system.

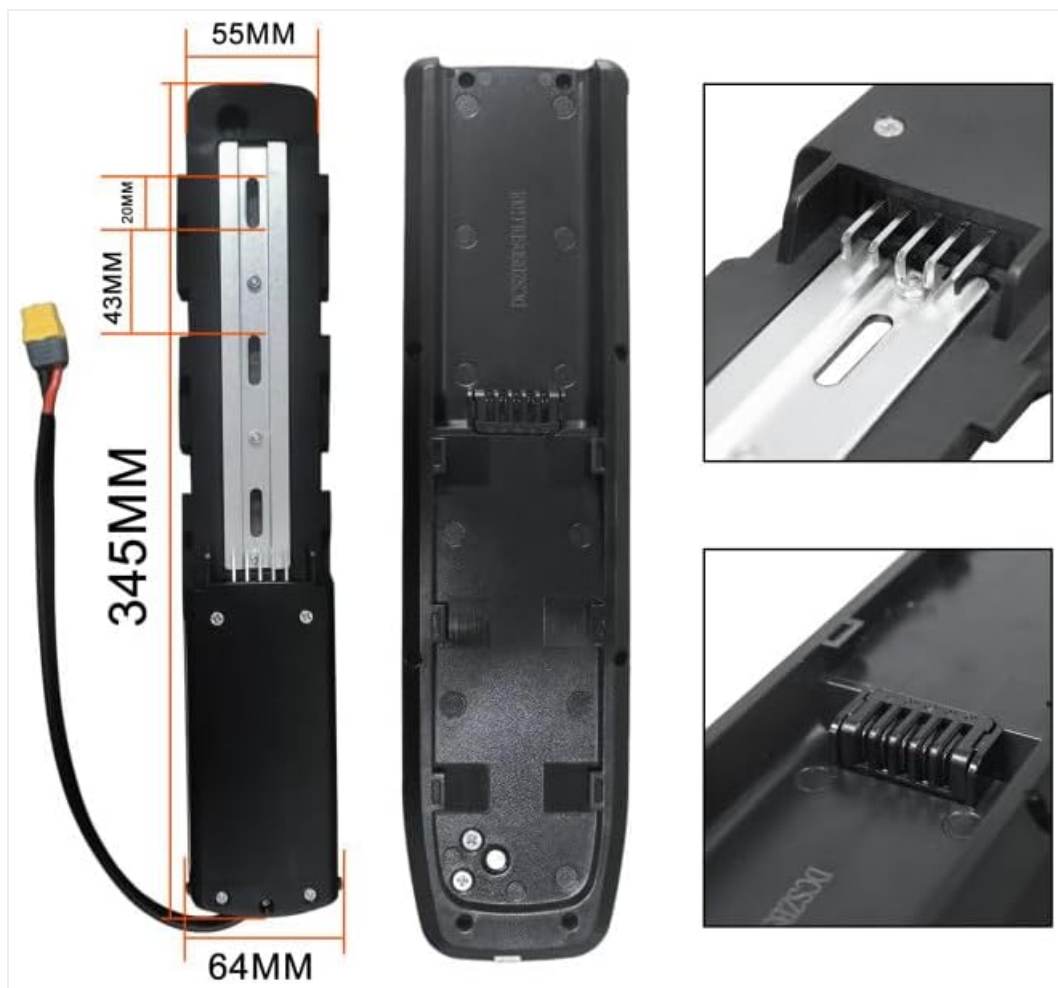


Figure 4.4: Illustration of the battery level indicator. Pressing the button activates the lights, which show the remaining power in increments (100%, 75%, 50%, 25%).

5. SETUP AND INSTALLATION

This battery is designed for downtube mounting. Ensure your ebike frame has the appropriate mounting points and sufficient space before installation.

1. **Prepare Mounting Area:** Clean the downtube area where the battery base will be installed.
2. **Attach Bottom Bracket:** Secure the provided bottom bracket (mounting base) to your ebike's downtube using appropriate screws (not included, typically provided with the ebike frame or purchased separately). Ensure it is firmly attached and aligned.
3. **Connect Motor Wires:** Connect the motor's power wires to the corresponding terminals on the battery's mounting base. Ensure correct polarity.
4. **Slide in Battery:** Carefully slide the battery pack onto the installed bottom bracket until it clicks into place.
5. **Secure with Lock:** Use the provided key to engage the anti-theft lock, securing the battery to the frame. Remove the key.
6. **Check Connection:** Gently tug on the battery to ensure it is securely mounted and does not wobble.

<div>48V13Ah/17Ah/19.2Ah</div> <div></div>		<div>48V20Ah/52V20Ah</div> <div></div>		<div>48V23Ah</div> <div></div>	
Type	Hailong Downtube Battery		Type	Hailong Downtube Battery	
Capacity	48V13Ah/17Ah/19.2Ah		Capacity	48V20Ah/52V20Ah	
Weight	5kg		Weight	5kg	
Size	368*90*113mm		Size	368*90*123mm	
Temperature	ChargeTemperature:0-45degree,Discharge Temperature :-20-65degree		Temperature	ChargeTemperature:0-45degree,Discharge Temperature :-20-65degree	
BMS Protection	Smart BMS,Balance Charging,Overheat Cut Off,Power Voltage Cut Off, Low Voltage Cut Off		BMS Protection	Smart BMS,Balance Charging,Overheat Cut Off,Power Voltage Cut Off, Low Voltage Cut Off	
Protection Function	Over Charge, Over Discharge, Over Current, Short Circuit		Protection Function	Over Charge, Over Discharge, Over Current, Short Circuit	
Battery Packing List	Battery, Charger, Key, Power base connection		Battery Packing List	Battery, Charger, Key, Power base connection	

Figure 5.1: Dimensions of the battery mounting base, showing measurements for length (345mm), width (64mm), and connector spacing (55mm, 20mm, 43mm). This helps ensure compatibility with your ebike frame.

6. CHARGING INSTRUCTIONS

Follow these steps to safely charge your ebike battery:

1. Preparation:

- Confirm that the model of the e-bike battery charger matches the battery's specifications.
- Check for any loose or damaged connections on both the charger and the power adapter.
- Ensure the charging environment is well-ventilated and free from high temperatures, humidity, or flammable materials.

2. **Connect Charger to Battery:** First, connect the charger's output plug to the battery's XLR charging port.

3. **Connect Charger to Power:** Next, connect the charger's power cord to a standard wall outlet.

4. **Initiate Charging:** If applicable, turn on the power switch on the battery or charger. The battery will begin charging. Monitor the charger's indicator light (usually red for charging, green for fully charged).

5. **During Charging:** Ensure the charger remains firmly connected. Avoid moving or bending the charging cable excessively during the charging process.

6. **Completion:** Once charging is complete (charger indicator turns green), disconnect the charger from the

wall outlet first, then from the battery.

7. OPERATION

To operate your ebike with the BAFANG battery:

- **Power On:** Ensure the battery is securely mounted and locked. Locate the power button on the battery (refer to Figure 4.2 or 4.4) and press it to turn on the battery. The power indicator lights will illuminate.
- **Check Battery Level:** Press the button next to the battery level lights to check the current charge status (Figure 4.4).
- **Ebike System:** Once the battery is powered on, you can activate your ebike's control panel or display to begin riding.
- **Power Off:** After your ride, turn off the battery by pressing and holding the power button until the indicator lights turn off. This conserves battery life.

8. MAINTENANCE AND STORAGE

Proper care extends the life of your battery:

- **Regular Charging:** If the battery is not used for an extended period, charge it periodically (e.g., once every 1-2 months) to maintain its health and prevent deep discharge. Aim for a charge level between 50-80% for long-term storage.
- **Environmental Conditions:** Store the battery in a cool, dry place, away from direct sunlight, high temperatures, and excessive humidity. Avoid exposing the battery to rain for prolonged periods.
- **Cleaning:** Use a dry or slightly damp cloth to clean the battery exterior. Do not use harsh chemicals or immerse the battery in water.
- **Connection Points:** Periodically inspect the battery terminals and mounting base for dirt or corrosion. Clean gently if necessary to ensure good electrical contact.

9. TROUBLESHOOTING

If you encounter issues with your BAFANG Ebike Battery, consider the following:

- **Battery Not Turning On:**
 - Ensure the battery is fully charged.
 - Check if the battery is securely mounted and locked into its base.
 - Verify that the power button is pressed correctly.
- **Battery Not Charging:**
 - Confirm the charger is properly connected to both the battery and the wall outlet.
 - Check if the wall outlet is functional.
 - Inspect the charger and battery charging port for any visible damage or debris.
 - Ensure the charger's indicator light is functioning (usually red when charging).
- **Reduced Range or Power:**
 - Ensure the battery is fully charged before each ride.
 - Environmental factors (cold weather) can temporarily reduce battery performance.
 - Check tire pressure and ebike maintenance (e.g., chain lubrication) as these can affect efficiency.
 - Over time, all batteries experience some degradation. If the issue persists, contact support.

If these steps do not resolve the issue, please contact customer support for further assistance.

10. SPECIFICATIONS

Feature	Detail
Brand	BAFANG
Model Name	BD-EB1305-HL
Nominal Voltage	48V
Capacity (Current Model)	17Ah
Charging Cut-off Voltage	54.6V
BMS	30A (Smart BMS with Balance Charging, Overheat Cut Off, Power Voltage Cut Off, Low Voltage Cut Off)
Protection Functions	Over Charge, Over Discharge, Over Current, Short Circuit
Charger	2A Fast Charger
Recommended Motor Power	0-1500W
Battery Dimensions (48V17Ah)	368mm x 90mm x 113mm
Package Weight	Approximately 13 Pounds (5.9 kg)
Material	Plastic
Operating Temperature (Charge)	0-45°C
	-20-65°C
UPC	783779684533

Note: Dimensions and weight are approximate and may vary slightly.

11. WARRANTY INFORMATION



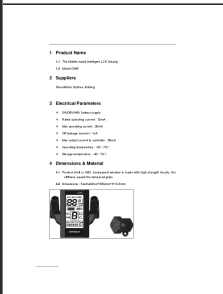
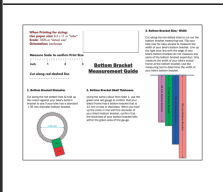

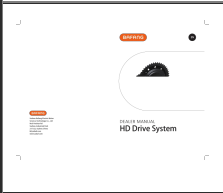
The BAFANG Ebike Battery comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. It does not cover damage resulting from misuse, accidents, unauthorized modifications, or improper maintenance. Please retain your proof of purchase for warranty claims.

12. CUSTOMER SUPPORT

For technical assistance, warranty claims, or any questions regarding your BAFANG Ebike Battery, please contact your retailer or the manufacturer's customer service. Provide your model number (BD-EB1305-HL) and proof of purchase for efficient service.

You can visit the official BAFANG store for more information: [BAFANG Store on Amazon](#)

Related Documents - BD-EB1305-HL

	<p>Bafang Go APP: User Instructions and Guide</p> <p>Comprehensive instructions for using the Bafang Go APP, covering features like eBike connection, ride tracking, settings customization, and technical support. Designed for optimal user experience and SEO.</p>
	<p>Bafang DPC18 Display Manual - Ebike Essentials</p> <p>Comprehensive manual for the Bafang DPC18 e-bike display, covering features, buttons, hardware, specifications, interface, functional overview, display settings, and error codes.</p>
	<p>Bafang C965 Intelligent LCD Display User Manual and Specifications</p> <p>Comprehensive user manual and technical specifications for the Bafang C965 intelligent LCD display, covering electrical parameters, features, operation, parameter settings, error codes, assembly, and wiring for electric bicycles.</p>
	<p>Bafang Bottom Bracket Measurement Guide for BBS02/BBSHD E-bike Mid-Drives</p> <p>Download and print this Bafang measurement guide to accurately determine your bicycle's bottom bracket diameter, shell thickness, and width. Essential for ensuring proper fitment of Bafang BBS02 (750W) and BBSHD (1000W) mid-drive motors. Includes printable template and instructions.</p>
	<p>Bafang GO App User Guide</p> <p>A comprehensive user guide for the Bafang GO App, detailing its features for smart cycling, including connection, settings, ride modes, navigation, and activity tracking.</p>
	<p>BAFANG HD Drive System Dealer Manual</p> <p>Comprehensive dealer manual for the BAFANG HD Drive System, covering installation, technical specifications, operation, and troubleshooting for the MM G32.1000 drive unit and DP C10.UART display.</p>