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BAFANG TFL48V20AH 960WH

BAFANG Electric Bike Battery User Manual

Model: TFL48V20AH 960WH

INTRODUCTION

Thank you for choosing the BAFANG Electric Bike Battery. This manual provides essential information for the safe and efficient use of your new battery. Our batteries are designed for electric bikes, compatible with various motor wattages, and feature advanced protection systems to ensure longevity and performance.



Image: The BAFANG Electric Bike Battery unit, accompanied by its dedicated charger and a set of keys for security.

SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using the battery. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Do not immerse the battery in water or expose it to excessive moisture.
- Keep the battery away from heat sources, direct sunlight, and flammable materials.
- Use only the charger provided by BAFANG. Using an incompatible charger may cause damage or fire.
- Do not short-circuit the battery terminals.
- Do not disassemble, puncture, or modify the battery pack. This can lead to dangerous situations and voids the warranty.
- Store the battery in a cool, dry place when not in use.
- Ensure the battery switch is turned on when charging to allow proper current flow.
- The battery is equipped with a BMS (Battery Management System) for protection against overcharge, over-discharge, over-current, short-circuit, and overheating. Do not attempt to bypass this system.

PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x BAFANG Electric Bike Battery
- 1x Battery Holder (Mounting Bracket)
- 1x Battery Charger
- 1x Power Cord for Charger
- 2x Keys for Battery Lock

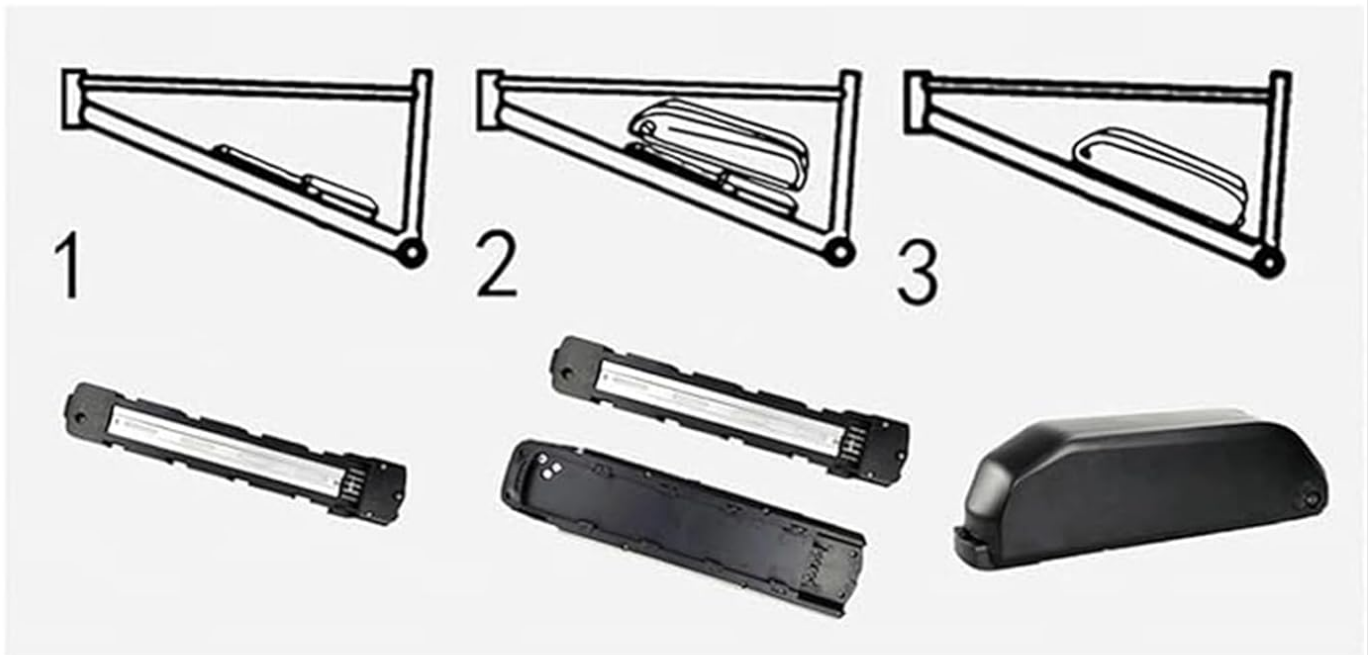
SETUP AND INSTALLATION

Follow these steps to properly install your BAFANG electric bike battery:

Battery Holder Installation

The battery holder (mounting bracket) needs to be securely attached to your bike frame. Ensure your bike frame has the appropriate mounting points. The battery holder typically uses the water bottle cage mounts on the downtube.

Installation Instruction



Step1



Step2



Step3



Image: Visual guide demonstrating the three steps for installing the battery holder onto an electric bike frame.

1. **Step 1: Prepare Mounting Area** - Identify the mounting holes on your bike frame, typically on the downtube. Ensure the area is clean and free of obstructions.
2. **Step 2: Attach Battery Holder** - Align the battery holder with the mounting holes on your bike frame. Secure it using appropriate screws (not included, typically provided with the bike frame or conversion kit). Ensure it is firmly tightened.
3. **Step 3: Slide Battery On** - Once the holder is secure, align the battery with the rails on the holder and slide it into place until it clicks and locks. Use the key to secure the battery to the holder.

Note: There are four holes in the bottom bracket of the product. If you intend to use it as a spare battery, please check the shape of the bottom of the battery to see if it is suitable for your original bracket.

OPERATING INSTRUCTIONS

Charging the Battery

Before first use, fully charge the battery. Subsequent charging should be done when the battery indicator shows low charge.

- Connect the charger to a standard wall outlet.
- Ensure the battery switch is turned ON.
- Connect the charger output plug to the charging port on the battery.
- The indicator light on the charger will typically show red during charging and turn green when fully charged.
- The battery's integrated indicator lights will also show charging status. When one red light and three green lights are on simultaneously, charging is complete.
- Once fully charged, disconnect the charger from the battery and then from the wall outlet.

Powering On/Off and Indicators

The battery features a power switch and indicator lights to show the remaining charge level.



Image: Detailed view of the battery's components, including charger options, battery base connection, charging port, power switch, key switch, and power indicator lights with their corresponding charge levels.

- **Power Switch:** Locate the power switch on the battery. Flip it to the 'ON' position to activate the battery for use with your e-bike motor. Flip it to 'OFF' when not in use or during charging.
- **Key Switch Safe Lock:** Use the provided key to lock the battery securely to its holder, preventing theft. Turn the key to unlock and remove the battery.
- **Power Indicator:** The battery has a series of LED lights indicating the charge level:
 - **3 Green Lights, 1 Red Light:** 100% Charge
 - **2 Green Lights, 1 Red Light:** 75% Charge
 - **1 Green Light, 1 Red Light:** 50% Charge
 - **1 Red Light:** 25% Charge (Recharge soon)

MAINTENANCE

Proper maintenance will extend the life of your BAFANG battery:

- **Cleaning:** Wipe the battery with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the charging port is clean and dry before charging.
- **Storage:** If storing the battery for an extended period, charge it to about 50-70% capacity. Store in a cool, dry place, away from direct sunlight and extreme temperatures. Recharge every 2-3 months to prevent deep discharge.
- **Temperature:** Avoid operating or storing the battery in extreme temperatures. The optimal charge temperature is 0-45°C (32-113°F), and discharge temperature is -20-65°C (-4-149°F).
- **Connection Points:** Periodically check the battery terminals and mounting bracket for any signs of corrosion or loose connections.

BATTERY WITH PROTECTION FUNCTION



Smart BMS protection



Rugged Case



Power Switch



Waterproof



Safety Lock



**Original
Lithium Battery**



**Temperature
Protection**



Long Battery Life

Image: Visual representation of the BAFANG battery's protection features, including Smart BMS protection, rugged case, power switch, waterproof design, safety lock, original lithium battery cells, temperature protection, and long battery life.

TROUBLESHOOTING

If you encounter issues with your BAFANG battery, refer to the following common problems and solutions:


Problem	Possible Cause	Solution
Battery not charging	Battery switch is OFF; Charger not connected properly; Faulty charger/battery.	Ensure battery switch is ON. Check all connections. Try another outlet. Contact support if issue persists.
Battery not powering bike	Battery switch is OFF; Battery not fully seated/locked; Low charge; Motor/controller issue.	Turn battery switch ON. Ensure battery is securely locked in holder. Check charge level. Verify motor/controller connections.

Problem	Possible Cause	Solution
Battery indicator lights not working	Battery is completely discharged; Internal fault.	Attempt to charge the battery. If no lights appear after charging for a period, contact support.
Battery overheating during charge/discharge	Poor ventilation; Overload; Internal fault.	Ensure adequate ventilation around the battery. Reduce load on the motor. Discontinue use and contact support immediately.


SPECIFICATIONS

Detailed technical specifications for BAFANG Electric Bike Batteries:


48V13Ah/52V16Ah



48V17.5Ah/48V20Ah



52V20Ah



Type	Polly Downtube Battery	Polly Downtube Battery	Polly Downtube Battery
Capacity	48V13Ah/52V16Ah	48V17.5Ah/48V20Ah	52V20Ah
Weight	5kg	5kg	5kg
Size	368*90*113mm	368*90*123mm	368*90*123mm
Temperature	Charge Temperature:0-45degree,Discharge Temperature :-20-65degree		
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		
Battery Packing List	Battery, Charger, Key, Power base connection		

Image: A table detailing various BAFANG battery specifications, including type, capacity, weight, size, temperature ranges, BMS protection, and packing list for different voltage and Ah configurations.

Feature	Details
Brand	BAFANG
Model Name	TFL48V20AH 960WH (Specific model for this manual)
Nominal Voltage (48V models)	48V
Rated Capacity (48V models)	13Ah / 17.5Ah / 20Ah
Nominal Voltage (52V models)	52V
Rated Capacity (52V models)	16Ah / 20Ah
Max Constant Discharge Current	30A (BMS)
Charger (48V)	54.6V 2A
Charger (52V)	58.8V 3A
Battery Cell Type	2600mah/4500mah/5000mah (for 48V), 3500mah (for 52V)
Charge Temperature	0-45°C (32-113°F)
Discharge Temperature	-20-65°C (-4-149°F)
BMS Protection	Smart BMS, Balance Charging, Overheat Cut Off, Power Voltage Cut Off, Low Voltage Cut Off
Protection Functions	Over Charge, Over Discharge, Over Current, Short Circuit
Dimensions (48V 13Ah / 52V 16Ah)	368*90*113mm
Dimensions (48V 17.5Ah / 48V 20Ah / 52V 20Ah)	368*90*123mm

Polly Battery

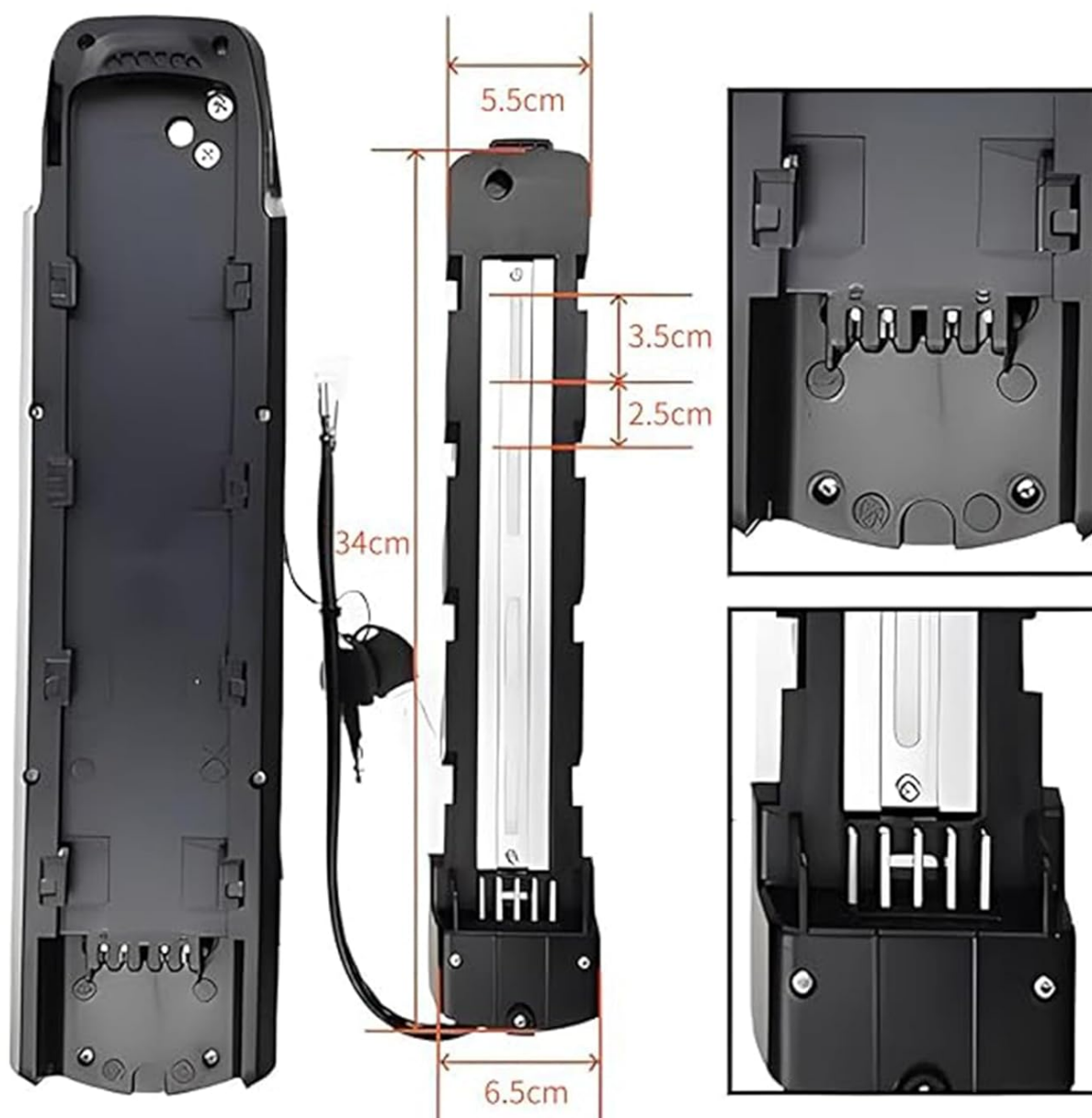


Image: A detailed diagram showing the dimensions of the Polly battery, including length, width, and height measurements in centimeters, along with internal component layout.

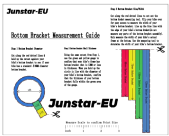
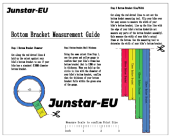

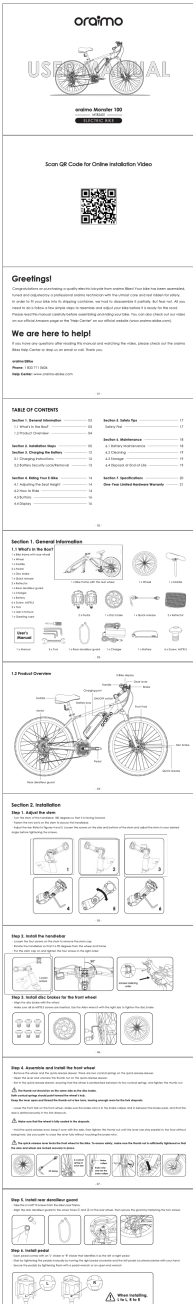
WARRANTY AND SUPPORT

BAFANG provides technical support and customer service for its products. For any issues or inquiries, please contact our support team.

- **Technical Support:** We have technical repair centers in many places to provide you with technical support.
- **Effective Communication:** Please pay attention to your Amazon mailbox for important updates regarding delivery or product issues. You can also proactively send us an email if you have any problems with the motor or battery.
- **Warranty Information:** Please refer to your purchase documentation for specific warranty terms and conditions.

For more information or to contact BAFANG directly, you can visit the official BAFANG Store on Amazon [BAFANG Store](#)

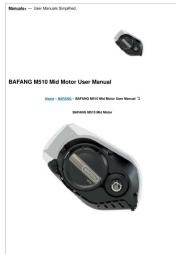
Related Documents - TFL48V20AH 960WH

	<p>Bafang Electric Bike Conversion Kit: Jumbo Shark & G80 Battery Mount Modification Guide</p> <p>This guide provides printable templates and instructions for modifying battery mounts for Bafang electric bike conversion kits, specifically for Jumbo Shark mounts used with G80 and other compatible Hailong batteries.</p>
	<p>Junstar-EU E-bike Conversion Kit Measurement Guide: Bottom Brackets & Yingwu Battery</p> <p>Comprehensive guide from Junstar-EU for measuring bicycle bottom brackets and understanding the dimensions of the 52V 20Ah Yingwu Battery, crucial for installing Bafang BBS-HD e-bike conversion kits.</p>
	<p>FREEDARE APP User Manual: Connect, Track, and Manage Your E-bike</p> <p>Comprehensive user manual for the FREEDARE mobile application. Learn how to create an account, connect your e-bike, track rides, manage settings, and utilize features like 'Find My Bike' and 'Bike Detection'.</p>
	



Biktrix Juggernaut Electric Fat Tire Bike: User Guide and Specifications

Comprehensive guide to the Biktrix Juggernaut electric fat tire bike, covering setup, features, specifications, charging, maintenance, and tips for improving range. Learn about its powerful motor, durable components, and versatile riding capabilities.



[BAFANG M510 Mid Motor User Manual and Installation Guide](#)

Comprehensive user manual for the BAFANG M510 Mid Motor, covering specifications, installation procedures, maintenance, and troubleshooting for electric bicycles.