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## Varstrom 48V13Ah

# Varstrom 48V13Ah Ebike Battery Instruction Manual

Model: 48V13Ah

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your Varstrom 48V13Ah Ebike Battery. This lithium battery is designed for 0-1500W ebike conversion kits and is compatible with Bafang Mid Drive Kits and other hub motors. Please read these instructions thoroughly before installation and operation.

The battery features an advanced Battery Management System (BMS) for protection, a secure locking mechanism, and an integrated LED power indicator. It also includes a USB port for charging external devices.



Image: The Varstrom 48V13Ah Ebike Battery, showcasing its design and the integrated USB charging port in use with a smartphone. An ebike is visible in the background.

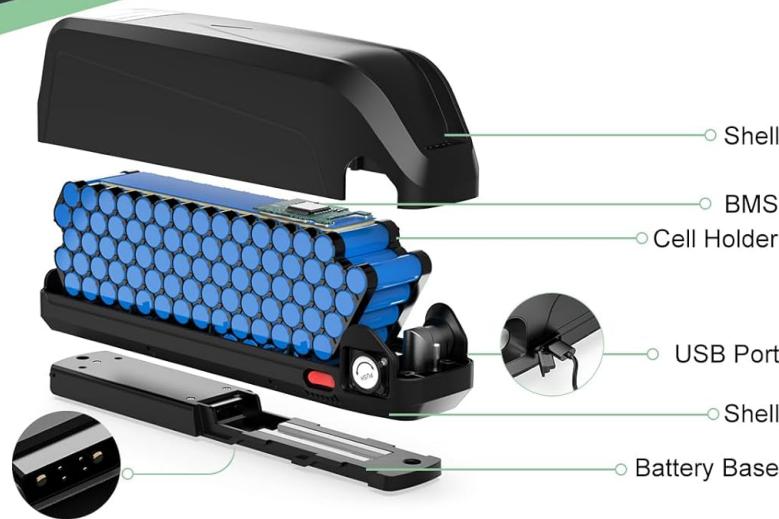
## 2. IMPORTANT SAFETY INSTRUCTIONS

To ensure safe operation and prolong the life of your battery, observe the following precautions:

- The battery must be charged before initial use.
- Store the battery in a cool, dry place, away from water and fire.
- Follow the charging method specified in the technical specifications.
- Do not separate, extrude, or collide with the battery.
- Charge and discharge the battery monthly, even during periods of non-use, to maintain its health.
- Do not cut the outer shell or remove the battery's jacket tube.
- Do not attempt reverse charging. Ensure correct polarity when connecting the battery.
- Do not disassemble or modify the battery without authorization.

# MULTIPLE PROTECTION

## 48V 13AH



### BMS BOARD-30A

Protect the Safety and Life of the Battery



Overcharge protection



Over discharge protection



Short circuit protection



Overcurrent protection



Overvoltage protection



Temperature protection

Image: An exploded view of the 48V 13Ah battery, highlighting its internal structure including the BMS, cell holder, and shell. Icons around it indicate multiple protection features such as waterproof, dustproof, vibration protection, 1000 times cycle life, and 30A BMS. Below, icons represent overcharge, over discharge, short circuit, overcurrent, overvoltage, and temperature protection.

### 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x Varstrom 48V13Ah Ebike Battery
- 1 x Battery Fix Plate (6 PIN battery plate)
- 1 x XT60 Extension Cable
- 2 x Rubber Spacers
- 4 x Screws
- 2 x Keys
- 1 x Charger
- 1 x User Manual (this document)

# PACKING LIST



1 1\* Battery      2 1\*Battery Fix Plate      3 1\*XT60 Line      4 2\*Rubber Spacer  
5 4\*Screws      6 2\*Keys      7 1\*User Manual

Image: A visual representation of the package contents. The main battery unit, a separate battery fix plate, an XT60 cable, two rubber spacers, four screws, two keys, and a user manual are clearly labeled and displayed.

## 4. SPECIFICATIONS

Feature	Detail
Brand	Varstrom
Model	48V13Ah
Battery Material	Lithium-ion
Nominal Voltage	48V
Rated Capacity	13Ah
Energy	624WH
Charger Current	2A/3A
AC Input	110-240V, 50/60Hz

Feature	Detail
Max Charging Voltage	54.6V
Charging Time	6-7 hours
BMS	30A
Cycle Life	Over 1000 cycles
Battery Cell Type	18650 2600MAH
Weight	4.25KG
Dimensions (L x W x H)	368mm x 90mm x 111mm (14.4" x 3.54" x 4.37")
Material	Aluminum
Special Feature	Waterproof, USB Port (5V 1.5-2A output)

# BATTERY PARAMETER

90mm/3.54"	Voltage/Current <b>48V 13AH</b>	Energy <b>624WH</b>
368mm/14.4"	BMS <b>30A</b>	Weight <b>4.25KG</b>
111mm/4.37"	Cycle Life(Time) <b>1000 TIMES</b>	Install Position <b>DOWNTUBE</b>
Battery Cell <b>18650 2600MAH</b>		

**SIZE:368\*90\*111MM**

Image: A graphic detailing the battery parameters, including Voltage/Current (48V 13Ah), Energy (624WH), BMS (30A), Weight (4.25KG), Cycle Life (1000 times), Install Position (Downtube), and Battery Cell type (18650 2600MAH). Dimensions are also shown as 368x90x111mm.

## 5. SETUP AND INSTALLATION

### 5.1 Battery Installation

The Varstrom 48V13Ah Ebike Battery is designed for easy installation and removal, typically on the downtube of your ebike frame.

- 1. Unlock and Remove Base:** Use the provided key to unlock the battery from its base. Slide the battery off the mounting plate.
- 2. Prepare Mounting Plate:** The battery fix plate (6 PIN base) needs to be secured to your bike frame.
- 3. Attach Plate to Frame:** Align the battery fix plate with the mounting holes on your ebike frame's downtube. Use the provided screws and rubber spacers to securely fasten the plate.
- 4. Slide Battery On:** Once the plate is secure, slide the battery onto the fixed plate until it clicks into place.
- 5. Lock Battery:** Use the key to lock the battery onto the plate, preventing theft and ensuring it stays in place during rides.

## INSTALLATION INSTRUCTION



Image: A five-step visual guide demonstrating the installation process. Step 1 shows unlocking the battery, Step 2 shows the battery base, Step 3 shows attaching the base to the frame with screws, Step 4 shows sliding the battery onto the base, and Step 5 shows the battery securely mounted on the ebike frame.

## 5.2 Electrical Connection

The battery's discharge wire connects to your ebike's motor or controller. The package includes an XT60 extension cable. If your motor/controller is not XT60, you may need to adapt your existing cable or use the provided conversion cable.

### Easy Connection (Without Tools for XT60)

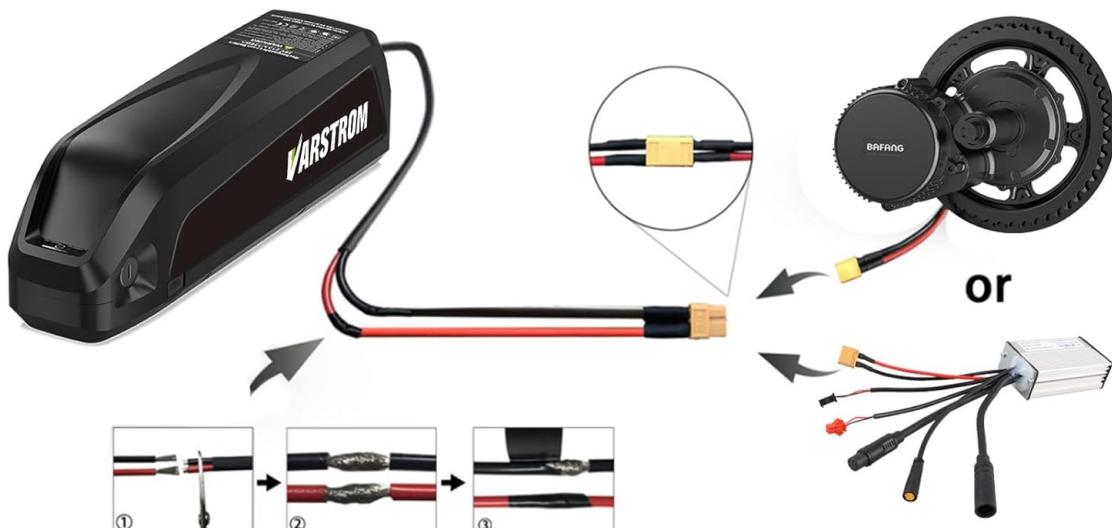
If your motor/controller has an XT60 connector, simply connect the battery's XT60 output to it.

### Connecting to Different Connectors

If your motor/controller uses a different connector type, you will need to adapt the XT60 extension cable:

1. Carefully cut a small section of the rubber insulation from the battery's discharge wire and the corresponding connector wire from your motor/controller.
2. Connect the red wire from the battery to the red wire of your motor/controller, and the black wire from the battery to the black wire of your motor/controller. Twist them together securely.
3. Wrap the connection with electrical tape to insulate and secure it.

After connecting the extension cable to the battery, the other end of the connector can be directly connected to the controller or the motor.



## HOW TO CONNECT

The discharge wire of the battery is not directly connected to the connector to prevent trouble and misunderstanding from being inconsistent with the customer's needs. However, there will be a pair of free connectors with lines(battery end and controller end) in the package, which can be connected directly if needed.

## EASY TO CONNECT WITHOUT TOOLS

1. Use scissors to cutoff a small section of rubber of the battery discharge wire and the connector line to expose the metal wire.
2. Connect the red wire to the red wire, the black wire to the black wire, and twist the metal wires of the corresponding color together.
3. Wrap the connection with electrical tape

After connecting the connector line to the battery, the other end of the connector can be directly connected to the controller or the motor

**This battery with XT 60 connectors inside the package**

**If you need other kinds of connectors, please contact with me before purchasing**

Image: A diagram showing the Varstrom battery connected to a Bafang motor. It illustrates the XT60 connector and provides a three-step guide on how to connect wires by cutting insulation, twisting corresponding colored wires (red to red, black to black), and securing with electrical tape.

**Compatibility Note:** This battery is universally compatible with various ebike conversion kits. Ensure your motor's connector type is compatible or adapted correctly. The battery is suitable for hub motor kits (confirm XT60 male connector), Bafang mid-drive kits, and other ebikes (confirm XT60 male connector).

## UNIVERSAL COMPATIBILITY



1. Suitable with the hub motor kit (Need confirm the connector is XT60 male)



2. Suitable with the bafang mid drive kit



3. Suitable with the ebike (Need confirm the connector is XT60 male)

Image: Three examples of ebike setups demonstrating universal compatibility. The first shows a battery suitable for a hub motor kit, the second for a Bafang mid-drive kit, and the third for a general ebike, all emphasizing the need to confirm XT60 male connectors.

## 6. OPERATING INSTRUCTIONS

### 6.1 Powering On/Off

Locate the power switch on the battery. Press it to turn the battery on or off. Ensure the battery is securely locked to the bike frame before riding.

### 6.2 Checking Battery Level

The battery features an integrated LED power indicator. Press the button next to the LEDs to view the current charge level. This helps you monitor the battery status and recharge promptly.

### 6.3 USB Charging Port

The battery includes a USB port (5V 1.5-2A output) that can be used to charge your phone, Bluetooth speaker, or other compatible electronic devices while on the go.

## RELIABLE QUALITY



### USB CHARGE SOCKET

The electric bike battery pack has a USB Port could use for charge phone,blue speaker and other electric devices(USB Out put:5V1.5-2A)



### POWER SWITCH & ANTI-THIEF LOCK

The E-bike battery Safe Lock&key,make sure that security,use to lock the battery on the frame also unlock to remove or replace easily



### BETTER CRAFTS MANSIP

High Rate Low Internal Resistance



### LED BATTERY POWER INDICATOR

Press the button,you can get the battery power level and voltage from the indicators

Image: A collage of four detailed images. Top-left shows the USB charge socket. Top-right displays the power switch and anti-theft lock with a key inserted. Bottom-left shows the internal craftsmanship of the battery cells. Bottom-right highlights the LED battery power indicator.

## 6.4 Charging the Battery

Connect the provided charger to the battery's charging port and then to a standard AC power outlet (110-240V, 50/60Hz). The charging time is approximately 6-7 hours. Always use the charger supplied with the battery.

## 7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your Varstrom Ebike Battery:

- **Regular Charging:** Even if not in use, charge and discharge the battery at least once a month to prevent deep discharge and maintain cell health.
- **Storage:** Store the battery in a cool, dry environment. Avoid extreme temperatures, direct sunlight, and high humidity.

- **Cleaning:** Keep the battery and its connectors clean and dry. Use a soft, dry cloth to wipe away dust or dirt. Do not use water or harsh chemicals.
- **Inspection:** Periodically inspect the battery for any signs of damage, such as cracks, swelling, or corrosion. If any damage is observed, discontinue use and contact support.

## 8. TROUBLESHOOTING

If you encounter issues with your Varstrom Ebike Battery, consider the following common solutions:

- **Battery Not Powering On:**
  - Ensure the battery is fully charged.
  - Check that the power switch is in the 'ON' position.
  - Verify that the battery is securely connected to the mounting plate and locked.
- **Battery Not Charging:**
  - Confirm the charger is properly plugged into both the battery and the wall outlet.
  - Check the wall outlet for power.
  - Ensure the charger's indicator light (if present) shows it is functioning.
  - Inspect the charging port and charger cable for any damage.
- **Reduced Range/Performance:**
  - Ensure the battery is fully charged before each ride.
  - Check tire pressure and riding conditions (e.g., hills, headwind) which can affect range.
  - Verify that the motor and controller are functioning correctly and not drawing excessive power.
  - Consider the age of the battery; battery capacity naturally degrades over time and cycles.
- **USB Port Not Charging Devices:**
  - Ensure the battery is powered on.
  - Check the USB cable for damage and ensure it's properly connected to both the battery and the device.
  - Verify the device requires 5V input and is not drawing more than 2A.

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

## 9. WARRANTY INFORMATION

The Varstrom 48V13Ah Ebike Battery comes with a warranty that includes:

- **30-day return policy:** For any issues within 30 days of purchase.
- **365-day repair or replacement:** For manufacturing defects or malfunctions within one year from the date of purchase.

Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, unauthorized modification, accident, or failure to follow the instructions in this manual.

## 10. CUSTOMER SUPPORT

For any questions, technical assistance, or warranty claims, please contact our customer support team. You can typically reach the seller, Lascycle, through the Amazon platform where you purchased the product.

When contacting support, please provide your product model (48V13Ah) and ASIN (B0F5WPP8X5) to help us assist you more efficiently.

Your browser does not support the video tag.

Video: An overview of the Varstrom E-bike Battery, demonstrating its easy installation and removal, the high-quality BMS for safety, and the use of quality cells. It highlights how the battery integrates with BAFANG motor kits for an enhanced cycling experience.

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