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› [Varstrom 48V 17.5Ah Rear Rack Ebike Battery Instruction Manual](#)

Varstrom 48V 17.5Ah Rear Rack Ebike Battery

Varstrom 48V 17.5Ah Rear Rack Ebike Battery Instruction Manual

Model: 48V 17.5Ah Rear Rack Ebike Battery

INTRODUCTION

This manual provides essential instructions for the safe and efficient use of your Varstrom 48V 17.5Ah Rear Rack Ebike Battery. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of your battery.



Image: The Varstrom 48V 17.5Ah Rear Rack Ebike Battery, its dedicated charger, and the accompanying rear rack for mounting.

SAFETY INFORMATION

Your safety is paramount. Adhere to the following guidelines:

- **Avoid Short-Circuiting:** Never short-circuit the battery terminals. This can cause permanent damage to the battery and pose a fire hazard.
- **Charging Practices:** Recharge the battery before it is completely depleted for optimal life. Disconnect the charger once the indicator turns green to prevent overcharging.
- **Integrated Protection:** The battery features a Battery Management System (BMS) for overcurrent, overvoltage, overload, overcharge, overdischarge, temperature, and short-circuit protection. Each cell is also equipped with a fuse.
- **Secure Mounting:** Ensure the battery is securely locked onto the rear rack to prevent theft and accidental dislodgement during operation.
- **Environmental Conditions:** Avoid exposing the battery to extreme temperatures, direct sunlight for prolonged

periods, or moisture.

REAR RACK BATTERY

48V 17.5AH



Overcurrent
Protection



Overvoltage
Protection



Overload
Protection



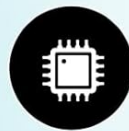
Overcharge
Protection



Overdischarge
Protection



Temperature
Protection



Short
Circuit Protection



Cell Voltage
Balancing

Image: Visual representation of the Varstrom Rear Rack Battery highlighting its multiple safety features, including overcurrent, overvoltage, overload, overcharge, overdischarge, temperature, short circuit protection, and cell voltage balancing.

PRODUCT OVERVIEW AND FEATURES

The Varstrom 48V 17.5Ah Rear Rack Ebike Battery is designed for electric bike motor kits ranging from 50W to 1200W. It offers reliable power and integrated safety features.

Key Features:

- **Compatibility:** Suitable for 0-1200W electric bike motor kits (e.g., BAFANG, Voilamart, AW, Ebikeling, Pexmor, L-Fater).
- **High Capacity:** 48V 17.5Ah (840Wh) for extended range.
- **Long Cycle Life:** Retains $\geq 80\%$ capacity after 800 cycles, with an estimated lifespan of up to 5 years.

- **Integrated Lock System:** Secures the battery to the rack and deters theft.
- **Power Switch:** Helps conserve power when the battery is not in use.
- **LED Power Indicator:** Provides real-time battery charge status.
- **Removable Design:** Allows for convenient charging off the bike.
- **XT60 Female Discharge Connector:** Standard connector for motor kits.
- **6-Pin Battery Base:** For secure connection to the rack.
- **USB Port:** For charging external devices.

SAFE LOCK

Secure your battery to ensure smooth motor operation and enhance theft prevention.



CHARGING PORT

XLR charging port: Ensure the charging current does not exceed 4A.



DISCHARGE PORT

Please be aware that the discharge port utilizes a 6Pin gold-plated, essential to consider when sourcing a replacement battery for your bike



BATTERY CONNECTOR

The XT60 connector facilitates a simpler connection with your motor controller and ensures efficient charging performance



USB PORT

Incorporating a USB port, it allows for convenient phone charging during your outdoor cycling adventures



Image: Detailed views of the battery's components: the secure lock with keys, the XLR charging port, the 6-pin gold-plated discharge port, the XT60 battery connector, and the integrated USB port for device charging.

SHOCKPROOF SHELL STRUCTURE

Safe, reliable, and boasting a long cycle life.

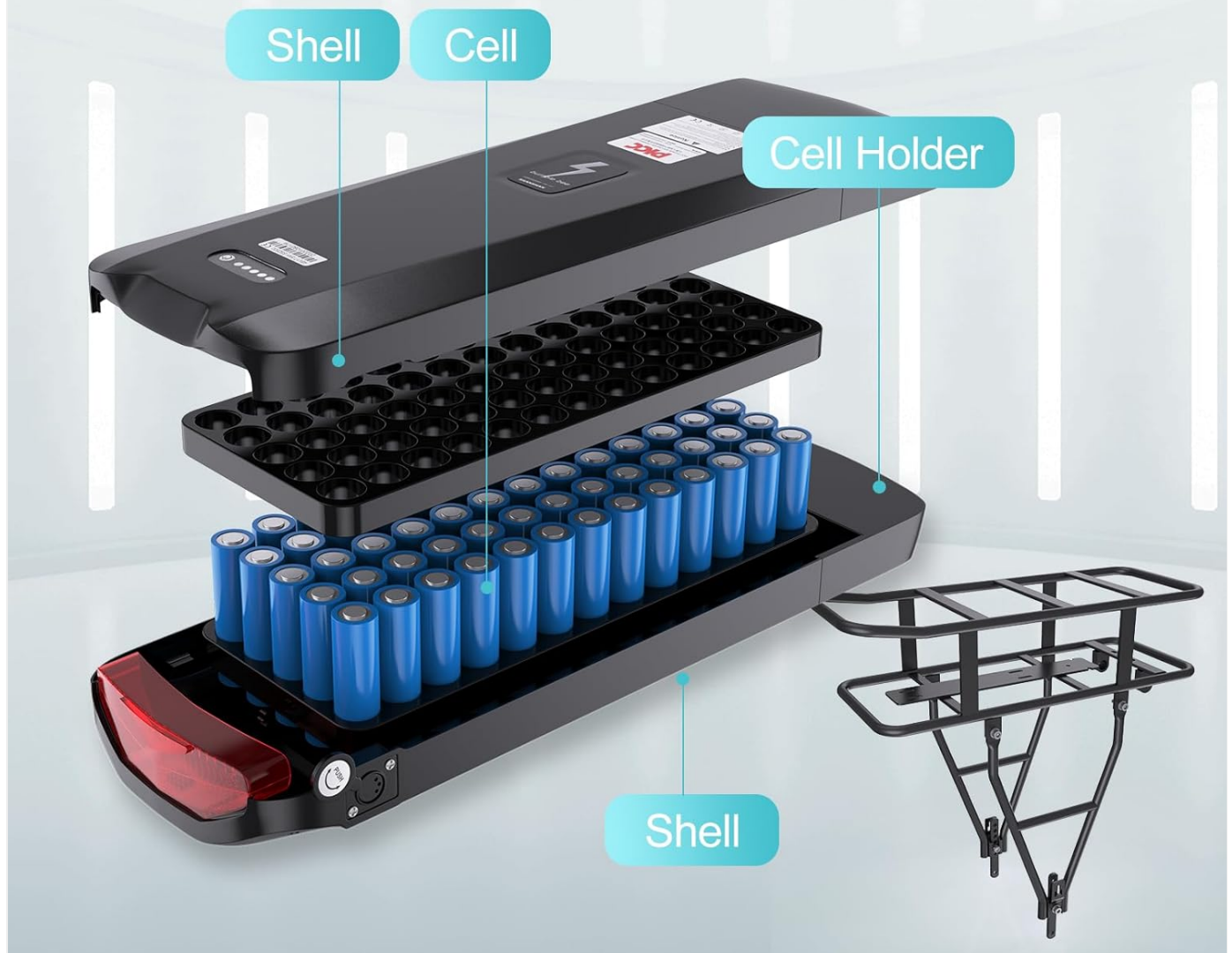


Image: An exploded view diagram illustrating the internal shockproof shell structure and the secure cell holder designed to protect the battery cells.

SPECIFICATIONS

| Parameter | Value |
|----------------------------------|-------------|
| Battery Voltage | 48V |
| Battery Capacity | 17.5Ah |
| Energy | 840Wh |
| Max Continuous Discharge Current | 30A |
| Discharge Connector | XT60 Female |

| Parameter | Value |
|-----------------------------|--|
| Charging Connector | XLR-3PIN |
| Max Charge Current | 4A |
| Battery Cell Type | Grade A 18650 2600mAh |
| Cycle Life | ≥80% capacity after 800 cycles, >1000 cycles total |
| Weight | 6KG |
| Dimensions (L*W*H) | 476mm * 162mm * 89mm (18.74" * 6.3" * 3.5") |
| Compatible Motor Wattage | 50W - 1200W |
| Compatible Bike Frame Sizes | 24", 26", 27.5", 28" |



48V 17.5AH REAR RACK BATTERY

840Wh
Energy:

476*162*89mm
Size:

Grade A
18650 2600mAh
Battery Cell:

6Pin Gold-Plated
Discharge Port:

30A
BMS:

6KG
Weight:


USB Port:

1000 Times
Cycle Life:

- Matchable Motor: 48V 250W-1200W
- Charger Connector: XLR-3PIN
- Maximum Charge Current: 4A

Image: Detailed diagram illustrating the dimensions of the Varstrom 48V 17.5Ah Rear Rack Ebike Battery and its mounting rack, along with

key specifications like energy, cell type, discharge port, and cycle life.

SETUP AND INSTALLATION

Follow these steps to properly install your Varstrom Rear Rack Ebike Battery and its accompanying rack.

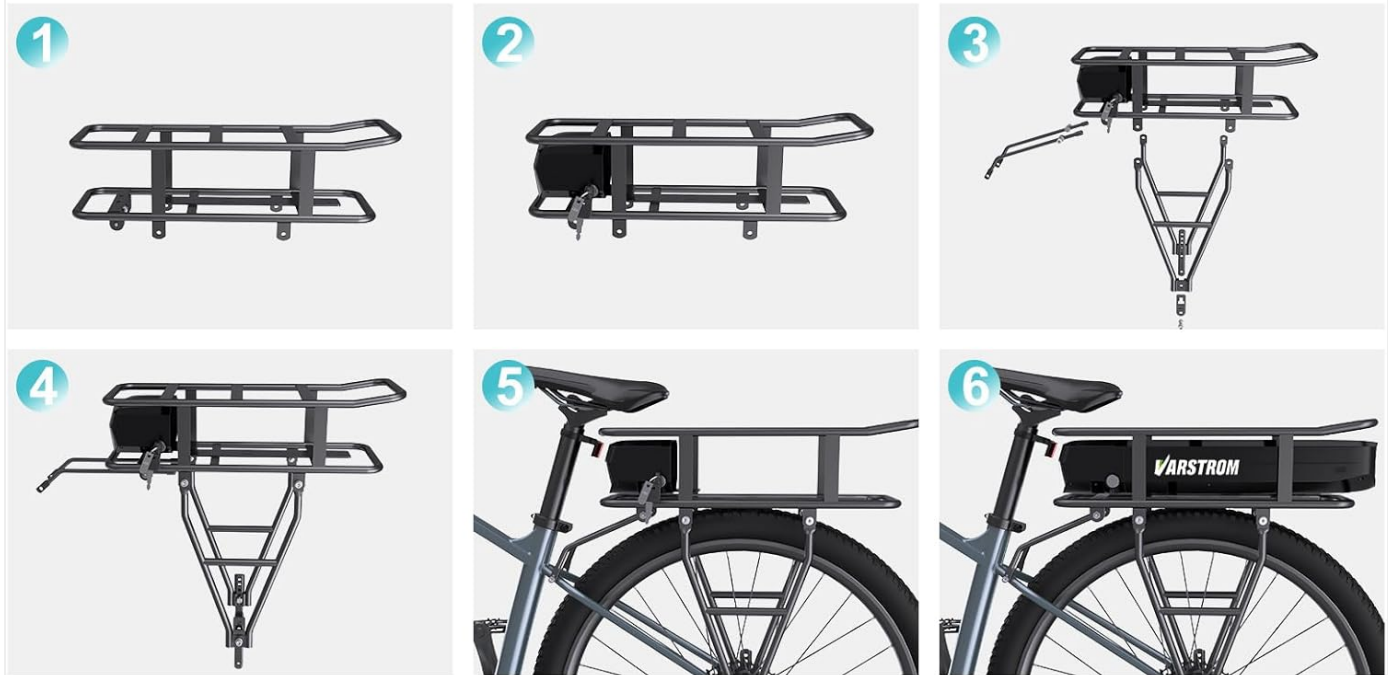
Packing List:

- 1 * 48V 17.5Ah Rear Rack Battery
- 1 * Battery Fix Plate
- 1 * Rear Rack
- 1 * Charger
- 2 * Keys
- 1 * 50A Fuse
- 1 * User Manual (this document)
- Accessories (mounting hardware)

Installation Steps:

1. **Step 1: Assemble the Rear Rack.** Attach the support arms to the main rack frame using the provided hardware. Ensure all connections are secure.
2. **Step 2: Mount the Rack to your Bicycle.** Securely attach the assembled rear rack to your bicycle's seat stays and dropout eyelets. Adjust the rack to be level and stable.
3. **Step 3: Install the Battery Fix Plate.** Mount the battery fix plate onto the rear rack. This plate will serve as the base for the battery.
4. **Step 4: Connect Wiring.** Route the battery's discharge cable and any other necessary wiring (e.g., for the brake light) from the battery fix plate to your motor controller. Ensure the XT60 connector is accessible for connection to your motor.
5. **Step 5: Slide in the Battery.** Carefully slide the battery onto the fix plate on the rear rack. Ensure it clicks into place.
6. **Step 6: Lock the Battery.** Use the provided key to lock the battery onto the rack. This prevents theft and secures the battery during riding.

INSTALLATION STEP



PACKING LIST

| | |
|---------------------|---------------|
| 1* Battery | Keys*2 |
| 1*Battery Fix Plate | 1*50A Fuse |
| 1*Rear Rack | 1*User Manual |
| 1*Charger | Accessories |

Image: A step-by-step visual guide demonstrating the installation process of the Varstrom Rear Rack Ebike Battery, from assembling the rack to securing the battery on the bicycle.

OPERATING INSTRUCTIONS

Charging the Battery:

1. Ensure the battery's power switch is in the "OFF" position.
2. Connect the charger to a standard AC power outlet. The charger's indicator light will typically show red.
3. Connect the charger's output plug (XLR-3PIN) to the charging port on the battery.
4. The charger indicator light will turn green when the battery is fully charged. Disconnect the charger from the battery and then from the power outlet.
5. *Note:* The maximum charge current is 4A. Do not use chargers exceeding this specification.

Using the Battery:

1. Ensure the battery is securely locked onto the rear rack.
2. Turn the battery's power switch to the "ON" position. The LED power indicator lights will illuminate, showing the current charge level.
3. Connect the XT60 discharge connector from the battery to your ebike motor controller.
4. Operate your ebike as per its specific instructions.
5. When finished riding, turn the battery's power switch to the "OFF" position to conserve power.

USB Charging Port:

The integrated USB port allows for convenient charging of small electronic devices (e.g., smartphones) during your ride. Simply connect your device's USB cable to the port on the battery.

MAINTENANCE

- **Regular Charging:** For optimal battery life, avoid completely depleting the battery. Recharge it regularly, even if not fully discharged.
- **Storage:** If storing the battery for an extended period, charge it to approximately 50-60% capacity. Store in a cool, dry place away from direct sunlight and extreme temperatures. Recharge every 2-3 months to prevent deep discharge.
- **Cleaning:** Clean the battery casing with a soft, dry cloth. Do not use water or cleaning agents directly on the battery or its ports.
- **Connector Inspection:** Periodically inspect the charging and discharge connectors for any signs of wear, corrosion, or damage.
- **Temperature Management:** Avoid operating or charging the battery in extremely hot or cold conditions. Optimal operating temperature is typically between 0°C and 45°C (32°F and 113°F).

TROUBLESHOOTING

This section addresses common issues you might encounter with your ebike battery.

| Problem | Possible Cause | Solution |
|----------------------------|--|---|
| Battery not charging | Charger not connected, power outlet issue, damaged charger, battery switch off. | Ensure charger is securely plugged into both wall and battery. Check power outlet. Verify battery power switch is off during charging. Try a different charger if available. |
| Battery not powering motor | Battery power switch off, low battery charge, loose connections, motor controller issue. | Turn battery power switch ON. Check LED indicator for charge level and recharge if necessary. Ensure all connectors (XT60, 6-pin base) are secure. Consult your motor kit manual for troubleshooting motor controller issues. |
| Battery rattling in mount | Improper installation, loose mounting hardware. | Re-check all mounting hardware for the rear rack and battery fix plate. Ensure the battery is fully seated and locked into the fix plate. Add padding if necessary to eliminate movement. |

| Problem | Possible Cause | Solution |
|---------------------------|--|---|
| LED indicator not working | Battery completely discharged, internal fault. | Attempt to charge the battery. If still unresponsive, contact customer support. |

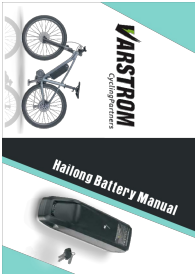


If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact Varstrom customer support.

Warranty and Support

Warranty Description: Varstrom offers a 30-day return policy and a 365-day repair or replacement warranty for this product.

For warranty claims, technical support, or any questions regarding your Varstrom 48V 17.5Ah Rear Rack Ebike Battery, please refer to the contact information provided with your purchase or visit the official Varstrom website. Please retain your proof of purchase for warranty validation.

Related Documents - 48V 17.5Ah Rear Rack Ebike Battery

| | |
|---|---|
|  | <p>VARSTROM Hailong Battery Manual: Operation, Maintenance, and Troubleshooting</p> <p>Comprehensive user manual for VARSTROM Hailong e-bike batteries. Covers function introduction, packing list, installation, operation, maintenance, storage, troubleshooting, and warranty activation. Includes safety guidelines and FAQ.</p> |
|  | <p>EKD01-AKSM Displayer Manual: Comprehensive Guide for E-Bike Displays</p> <p>Explore the EKD01-AKSM and B02NU-AKSM e-bike display unit with this detailed user manual. Learn about installation, features, settings, Bluetooth connectivity, app integration, and troubleshooting for your electric bicycle.</p> |
|  | <p>Grin Technologies Basics Ebike Guide: Understanding Electric Bike Conversions</p> <p>A comprehensive guide from Grin Technologies explaining the basics of electric bikes, key components like motors, controllers, and batteries, considerations for ebike conversions, and essential terminology for enthusiasts and builders.</p> |

Comprehensive installation manual for rear wheel E-bike conversion kits, covering parts, tools, and step-by-step assembly for components like motor, controller, LCD, PAS, and brake levers.

Comprehensive user manual for the Orais Electric Bike for Adults, featuring a 350W BAFANG motor, 4A 3H fast charge, UL certified battery, 26" mountain ebike design with Shimano 21-speed gears, and an air saddle. Includes specifications, operation, safety, and maintenance guidelines.

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A comprehensive fitment guide for the Cap Rouge Jumbo Shark Battery, providing essential instructions for printing templates, checking print accuracy, and understanding battery mounting points for e-bike installations.