SHIMANO BT-EN805

SHIMANO Steps BT-EN805 Ebike Battery User Manual

Model: BT-EN805

1. Introduction

This manual provides essential information for the safe and efficient use of your SHIMANO Steps BT-EN805 Ebike Battery. Please read this manual thoroughly before using the battery to ensure proper operation, maintenance, and to prevent damage or injury. Keep this manual for future reference.

Safety Information

- Always use the SHIMANO-approved charger for this battery. Using an unapproved charger can cause fire, explosion, or damage to the battery.
- Do not expose the battery to extreme temperatures (above 50°C or below -10°C), direct sunlight, or fire.
- Do not immerse the battery in water or allow it to get wet.
- Avoid dropping, puncturing, or subjecting the battery to strong impacts.
- Keep the battery away from children and pets.
- If the battery shows signs of damage, leakage, or overheating, discontinue use immediately and contact SHIMANO support.
- Do not attempt to disassemble, modify, or repair the battery. This can lead to serious injury and voids the warranty.

2. Setup

Unpacking

Carefully remove the battery and all accessories from the packaging. Inspect the battery for any visible damage. If any damage is found, do not use the battery and contact your retailer or SHIMANO support.

Initial Charging

Before first use, fully charge the battery. Connect the SHIMANO charger to a power outlet and then to the battery's

charging port. The charging indicator lights on the battery and/or charger will show the charging status. Refer to your charger's manual for specific indicator details.

Installation (Down Tube/Integrated)

The BT-EN805 battery is designed for down tube or integrated frame mounting. Installation should be performed by a qualified bicycle mechanic or by carefully following the specific instructions provided with your ebike frame. Ensure the battery is securely locked into place to prevent accidental detachment during riding.



Figure 1: SHIMANO Steps BT-EN805 Ebike Battery. This image displays the battery's form factor, designed for seamless integration into an ebike's down tube.

Compatibility Notes

This battery is part of the SHIMANO Steps system. Ensure your ebike's motor unit and other components are compatible with the BT-EN805 battery. Consult your ebike manufacturer's documentation for specific compatibility details.

3. Operating

Turning On/Off

To turn on the ebike system, press the power button located on the battery or the ebike's display unit. To turn off, press and hold the power button until the system shuts down. Always turn off the system when not in use or when charging.

Charging Procedures

1. Ensure the ebike system is turned off.
2. Locate the charging port on the battery.
3. Connect the SHIMANO charger to a standard electrical outlet.
4. Connect the charger's output plug to the battery's charging port.
5. Monitor the charging indicator lights. A full charge typically takes several hours. Do not leave the battery charging unattended for extended periods.
6. Once fully charged, disconnect the charger from the battery, then from the power outlet.

Battery Usage Tips

- **Range:** The actual range of your ebike depends on various factors including terrain, rider weight, assistance mode, tire pressure, and temperature.
- **Assistance Modes:** Utilize different assistance modes (e.g., Eco, Trail, Boost) to manage battery consumption and optimize your ride.
- **Temperature:** Battery performance can be reduced in cold temperatures. Store and charge the battery at room temperature whenever possible.

4. Maintenance

Cleaning

Wipe the battery exterior with a soft, damp cloth. Do not use harsh chemicals, abrasive cleaners, or high-pressure water jets, as these can damage the battery or its seals. Ensure the charging port is clean and dry before charging.

Storage

For long-term storage (more than one month), store the battery in a cool, dry place, ideally between 10°C and 20°C (50°F and 68°F). Charge the battery to approximately 50-70% capacity before storage and check its charge level every few months, recharging if necessary to maintain this range.

Battery Health

Lithium-ion batteries have a finite lifespan, typically measured in charge cycles. To maximize battery life:

- Avoid fully discharging the battery frequently.
- Avoid leaving the battery fully charged for extended periods.
- Charge the battery at room temperature.
- Do not expose the battery to extreme heat or cold.

5. Troubleshooting

If you encounter issues with your SHIMANO Steps BT-EN805 battery, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Battery not charging	• Charger not properly connected. • Power outlet issue. • Damaged charger or cable. • Battery temperature too high/low.	• Ensure all connections are secure. • Test the outlet with another device. • Inspect charger and cable for damage. Replace if necessary. • Move battery to room temperature and try again.
Reduced range or power	• Battery not fully charged. • Extreme temperatures. • High assistance mode usage. • Battery aging.	• Fully charge the battery before riding. • Operate the ebike within recommended temperature ranges. • Use lower assistance modes when possible. • Consider battery replacement if significant degradation occurs over time.
Error code on display	• System malfunction. • Communication issue.	• Refer to your ebike's display unit manual for specific error code meanings. • Try turning the system off and on again. • If the issue persists, contact a SHIMANO service center or your ebike dealer.

If these steps do not resolve the issue, or if you suspect a serious problem with the battery, contact SHIMANO customer support or an authorized service center. Do not attempt to repair the battery yourself.

6. Specifications

Model Number	BT-EN805
Capacity	504 Wh
Type	Down Tube / Integrated
Brand	SHIMANO
Dimensions (L x W x H)	18.23 x 8.15 x 7.67 inches (approximate)
Weight	9.2 Pounds (approximate)
UPC	192790234557
ASIN	B0CJ9W97FM

7. Warranty and Support

Warranty Information

SHIMANO products are manufactured to high standards and are covered by a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and product.

Please refer to the official SHIMANO website or contact your local dealer for detailed warranty information applicable to your BT-EN805 battery.

Customer Support

For technical assistance, service, or questions regarding your SHIMANO Steps BT-EN805 Ebike Battery, please contact SHIMANO customer support or visit the official SHIMANO website for a list of authorized service centers and contact details.
SHIMANO Official Website: bike.shimano.com

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