

SHC-8100

Generic 42V Battery Charger Instruction Manual for STC SHC-8100 Series 36V Li-ion Electric Bikes

Model: SHC-8100, SHC-8100L, SHC-8100LC, SHC-8100LD

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient use of your Generic 42V Battery Charger. This charger is designed for STC SHC-8100, SHC-8100L, SHC-8100LC, and SHC-8100LD electric bicycles equipped with 36V Lithium-ion battery systems. Please read this manual thoroughly before first use and retain it for future reference.



Image 1.1: The 42V battery charger, showing both the barrel tip connector and the 3-pin XLR connector. The main charger unit is black with a green LED indicator.

2. IMPORTANT SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the charger and your electric bike battery:

- Use this charger only with compatible 36V Lithium-ion batteries for STC SHC-8100 series electric bikes. Using it with incompatible batteries may cause damage or fire.
- Ensure the charger's input voltage (AC 100V - 240V) matches your local power supply.
- Do not expose the charger to water, moisture, or extreme temperatures.
- Do not attempt to open, modify, or repair the charger. Refer all servicing to qualified personnel.

- Keep the charger away from children and pets.
- Unplug the charger from the power outlet when not in use or during electrical storms.
- The charger features built-in protections against overcharging, short circuits, overheating, overcurrent, electrostatic discharge, magnetic fields, and overvoltage to ensure safe operation and prolong battery life.

T POWER offers a massive in stock AC/DC Power adapter selection.

You get to choose a power adapter from the industry's leading manufacturers.

We offer a variety of power adapter form factors to meet the specific needs of any power adapter application. Whether you are searching a power adapter for Home, Office, School, Led Light, Printer, Wi-Fi Router, Vacuum-cleaner , any digital devices. we have the ideal power adapter solution.



Image 2.1: Visual representation of the charger's safety features, including icons for Short Circuit Protection, Overheating Protection, Overcurrent Protection, Electrostatic Protection, Magnetic Field Protection, and Overvoltage Protection.

3. PACKAGE CONTENTS

Upon opening the package, verify that all items are present and undamaged:

- 1 x 42V AC/DC Power Adapter (Charger)

4. SETUP AND CONNECTION

Before connecting the charger, confirm your electric bike's battery connector type. This charger supports both barrel tip and 3-pin XLR connectors.

1. **Identify Connector Type:** Examine your electric bike's charging port to determine if it requires a barrel

tip (5.5x2.5/2.1mm) or a 3-pin XLR connector.

2. **Connect to Battery:** Carefully insert the appropriate charger connector into your electric bike's charging port. Ensure a secure fit.
3. **Connect to Power Outlet:** Plug the AC power cord of the charger into a standard wall outlet (AC 100V-240V).
4. **Verify Connection:** The charger's LED indicator will illuminate to show the charging status.

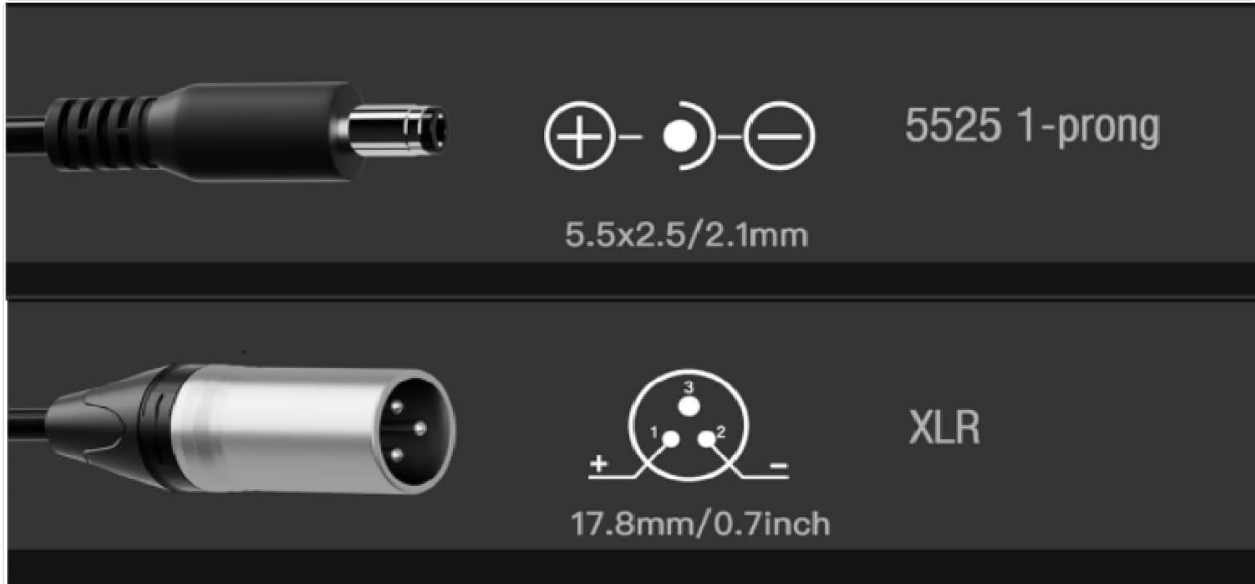


Image 4.1: Detailed view of the two supported connector types: a barrel connector (5.5x2.5/2.1mm) and a 3-pin XLR connector (17.8mm/0.7inch), illustrating their pin configurations.

5. OPERATING INSTRUCTIONS

Once connected, the charger will automatically begin charging your electric bike's battery. The charging process is indicated by the LED light on the charger unit.

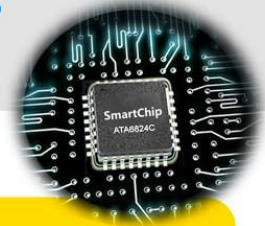
- Allow the battery to charge fully for optimal performance and battery longevity.
- Avoid interrupting the charging cycle frequently.
- The charger is designed to prevent overcharging, but it is good practice to disconnect the charger once the battery is fully charged.

6. LED INDICATOR GUIDE

The LED indicator on the charger provides visual feedback on the charging status:

- **Green light flashing:** The battery is currently charging.
- **Green light solid:** The battery is fully charged.
- **Red light flashes fast:** Indicates a defective battery or charger issue.
- **Red light flashes fast & slow:** Indicates a temperature anomaly.

T-Power charger has been qualified by a test lab, and it has passed rigorous inspections before being delivered to you.



Our charger has a built-in integrated microchip that prevents overcharging and other malfunctions, prolonging the battery life.

LED Indicator Display:

- Charging -- Green light flashing;
- Fully charged -- Green light solid;
- Defective -- Red light flashes fast;
- Temperature anomaly -- Red light flashes fast & slow.

Image 6.1: Diagram illustrating the LED indicator display and its corresponding charging statuses: green flashing for charging, solid green for fully charged, fast red flashing for defective, and fast & slow red flashing for temperature anomaly.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your charger:

- **Cleaning:** Wipe the charger with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Cable Care:** Avoid bending or kinking the power cord excessively. The cable is designed to withstand up to 10,000 bends, but proper handling extends its life.
- **Inspection:** Periodically inspect the charger and cables for any signs of damage, such as frayed wires or cracked casing. Discontinue use if damage is found.

Longer Lifespan

Tested to withstand
10,000 bends

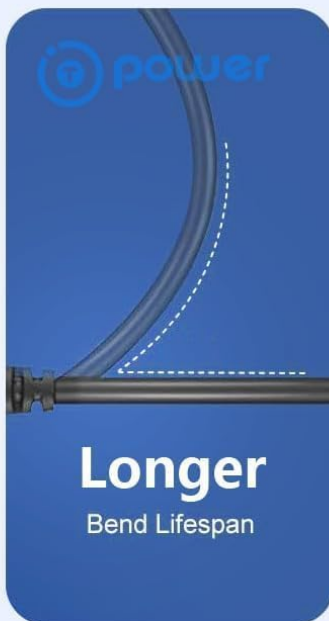


Image 7.1: Information highlighting the charger's durability, including its ability to withstand 10,000 bends, excellent material quality, and durable premium power plug.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger LED not lighting up.	No power from outlet; loose connection; faulty charger.	Check power outlet with another device. Ensure all connections are secure. If still no light, the charger may be faulty.
Green light flashing, but battery not charging.	Battery issue; incorrect voltage.	Verify battery voltage (should be 36V Li-ion). Consult your electric bike's manual for battery troubleshooting.
Red light flashing fast.	Defective battery or charger.	Disconnect and reconnect. If the issue persists, the battery or charger may be defective. Contact support.
Red light flashing fast & slow.	Temperature anomaly (overheating/too cold).	Move the charger and bike to a room-temperature environment. Allow to cool down or warm up before attempting to charge again.
Charger connector does not fit.	Incorrect connector type.	Ensure you are using the correct connector (barrel tip or 3-pin XLR) for your specific electric bike model. Refer to Section 4.

9. SPECIFICATIONS

Model Number	TP- STC SHC-8100 SHC-8100L SHC-8100LC
Input Voltage Range	AC 100V - 240V
Output Voltage	DC 42V
Output Current	2 Amps
Wattage	80 Watts
Compatible Battery Voltage	36V Li-ion (for STC SHC-8100 series electric bikes)
Connector Types	Barrel Connector (5.5x2.5/2.1mm), 3-Pin XLR Connector
Product Dimensions	4.5 x 2 x 1.25 inches
Item Weight	8 ounces
Special Feature	Charging Indicator
Manufacturer	TP- stc kusshan st electronics against IV -SC CE/RoHS certified

10. WARRANTY AND SUPPORT

This product comes with the following assurances:

- **30-Day Return Policy:** You may return your undamaged product within 30 days of purchase for a full refund.
- **1-Year Limited Manufacturer Warranty:** The manufacturer provides a 1-year limited warranty covering quality-related issues. Easy exchange for a replacement is available.

- **Technical Support:** For any inquiries, compatibility checks, or assistance with your charger, please contact the seller or manufacturer's technical support.



 Over-Current Protection
 Over-Temp Protection
 Over-Voltage Protection
 Short Circuit Protection
SUPERIOR SAFETY POWER ADAPTER



Warm Tips
Please check our compatible Model List and Notice. Make sure the Model# or Part# match your device.
please feel free to contact us for any inquiries



Professional of Power Adapters
T-Power adapters are tested on the original device to ensure compatibility. Certified by T-power technicians 100% compatible.



Safety Features with Safety certified
Safeguards against incorrect voltage, short circuit, and internal overheating. (CE/FCC/RoHS certified)



Reinforced Power Cord
Long lasting DC cord for your convenience and charge your device.

T-Power is a globally trusted provider of premier power supplies and power supply products.



30-Day Return for Any Reason

You may return your undamaged product and packaging within 30 days of purchase to receive a FULL REFUND for any reason.



1-Year Limited Manufacturer Warranty

We will take care of all quality-related issues , **Easy Exchang** with a REPLACEMENT.*



Technical Support

Received the wrong item?
Looking for Charger for your device?
Adapter tip doesn't fit your device?
We can help, just let us know.

Image 10.1: Graphic detailing product assurances including a 30-Day Return policy, 1-Year Limited Manufacturer Warranty, and Technical Support availability. It also shows certifications and a reinforced power cord.