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› VONBLAY SANS 54V 2A Electric Bike Charger Instruction Manual (Model: SSLC109V55)

VONBLAY SSLC109V55

VONBLAY SANS 54V 2A Electric Bike Charger Instruction Manual

Model: SSLC109V55 | Brand: VONBLAY

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1. INTRODUCTION

This manual provides essential instructions for the safe and efficient use of your VONBLAY SANS 54V 2A Electric Bike Charger. Designed for 48V Lithium Batteries, this charger features intelligent charging modes and multiple safety protections. Please read this manual thoroughly before operating the charger and retain it for future reference.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage, observe the following precautions:

- **Compatibility:** Use this charger exclusively with compatible 48V lithium-ion batteries.
- **Voltage Check:** If the indicator light turns green immediately after connecting to the battery, disconnect the charger and measure your battery voltage. Do not use the charger if your battery voltage is below 35.7V, as this is dangerous.
- **Environment:** Avoid using the charger in rain, damp, or wet conditions. Keep it away from direct sunlight and heat sources.
- **Overheating:** Disconnect the charger from the power supply immediately if it overheats during operation.
- **Children and Pets:** Keep the charger out of reach of children and pets.
- **Protection Features:** The charger is equipped with Over output Voltage Protection (OVP), Over output Current Protection (OCP), Short Circuit Protection (SCP), and Over Temperature Protection (OTP) for enhanced safety.

Your browser does not support the video tag.

Video: This video demonstrates the safety features and various protections integrated into the charger, including over-voltage, over-current, short circuit, and over-temperature protection, ensuring a safe charging experience.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x VONBLAY SANS 54V 2A Electric Bike Charger Unit
- 1 x AC Power Cable (for wall outlet connection)
- 1 x DC Output Cable with Straight Lotus Jack Connector



Image: The charger unit shown with its detachable AC power cable and DC output cable, featuring the Straight Lotus Jack Connector.

Your browser does not support the video tag.

Video: This video provides an unboxing and overview of the VONBLAY 54V 2A charger, showcasing the main unit and its included cables, including the DC2.1 connector.

4. SETUP

4.1 Connecting the Charger

1. Connect the AC power cable to the charger unit's input port.
2. Connect the DC output cable (with the Straight Lotus Jack Connector) to the charger unit's output port.
3. Ensure both connections are secure.



Image: A detailed view of the Straight Lotus Jack Connector, which connects to your electric bike's battery charging port.

5. OPERATING INSTRUCTIONS

5.1 Charging Process

1. **Connect to Battery First:** Before plugging into a wall outlet, connect the DC output cable (Straight Lotus Jack Connector) to your electric bike's 48V lithium battery charging port.
2. **Connect to AC Power:** Once the DC terminal is securely connected to the battery, plug the AC power cable into a standard AC120V, 50~60Hz wall outlet.
3. **Monitor Indicator Light:** The charger features an indication light:
 - **Red Light:** Indicates the battery is currently charging.
 - **Green Light:** Indicates the battery is fully charged or there is an issue (e.g., battery voltage below 35.7V).
4. **Disconnect Safely:** After charging is complete, first unplug the AC power cable from the wall outlet, then unplug the DC output cable from the battery.
5. **Storage:** When not in use or after charging, always ensure both the DC and AC terminals are unplugged.

The charger utilizes a three-mode intelligent charging process: Constant Current, Constant Voltage, and Trickle (Floating Charge) to optimize battery health and charging efficiency.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your charger:

- **Cleaning:** Keep the charger clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Storage:** Store the charger in a cool, dry place when not in use. Avoid extreme temperatures.
- **Cable Care:** Regularly inspect cables for any signs of damage, fraying, or exposed wires. Replace damaged cables immediately.
- **Ventilation:** Ensure the charger's ventilation slots are not blocked during operation to prevent overheating.

7. TROUBLESHOOTING

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

- **Charger Not Working / No Indicator Light:**
 - Ensure both AC and DC cables are securely connected.
 - Check the wall outlet for power by plugging in another device.
 - Verify the AC power cable is fully inserted into the charger unit.
- **Green Light Immediately After Connecting to Battery:**
 - This may indicate the battery is already fully charged or its voltage is too low.
 - Disconnect the charger and measure your battery voltage. If it's below 35.7V, do not use the charger.
- **Charger Overheating:**
 - Ensure adequate ventilation around the charger. Do not cover it during use.
 - Disconnect immediately if overheating persists and contact support.
- **Slow Charging:**
 - Verify the charger specifications match your battery requirements.
 - Ensure the ambient temperature is within the recommended operating range (-5 °C ~ +40 °C).

8. SPECIFICATIONS

Feature	Detail
Product Name	Electric Bike Charger
Model Number	SSLC109V55
Brand	VONBLAY
Input Voltage	AC120V, 50 ~ 60Hz
Output Voltage	54.6V (for 13S Li-ion Battery)
Output Current	2A
Wattage	108 watts
Applicable Battery Type	48V Li-ion Battery (e.g., Super Cruiser 48V/12A, Folding OX 48V/10A)
Output Plug Type	Straight Lotus Jack Connector
Charging Mode	Constant Current - Constant Voltage - Trickle (Floating Charge)
Charging Efficiency	≥85% (full load)
Battery Protection	SCP (Short Circuit Protection), OVP (Over output Voltage Protection), OCP (Over output Current Protection), OTP (Over Temperature Protection)
Working Temperature	-5 °C ~ +40 °C
Storage Temperature	-40 °C ~ +70 °C
Product Dimensions	6.5 x 3.2 x 1.8 inches (165x80x45mm)
Item Weight	1.56 pounds

9. WARRANTY AND SUPPORT

Your VONBLAY SANS Electric Bike Charger comes with a satisfaction guarantee. If you are not satisfied with your product, please contact us for a full refund or replacement.

For further assistance, technical support, or warranty claims, please refer to the contact information provided with your purchase or visit the official VONBLAY website.

