

Sourcefy A-1272

Sourcefy Eco Battery DC to DC Converter Model A-1272 Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Sourcefy Eco Battery DC to DC Converter, Model A-1272. This device is designed to efficiently convert a high DC input voltage (40V to 90V) from battery systems, typically 48V to 72V, into a stable 12-volt DC output, suitable for powering various 12V accessories.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Improper installation or use can result in serious injury or death. Always consult a qualified professional for installation if you are unsure.

- Always disconnect the battery power before attempting any installation or maintenance.
- Ensure proper ventilation around the converter to prevent overheating.
- Do not expose the converter to water, moisture, or extreme temperatures.
- Use appropriate wire gauges and fuses for all connections as specified by local electrical codes and product requirements.
- Verify input and output voltage polarities before making connections.

3. PRODUCT OVERVIEW

The Sourcefy Eco Battery DC to DC Converter (Model A-1272) is a compact, robust unit designed for reliable power conversion. It features a durable housing and a pre-wired harness for simplified installation.



Image 1: Sourcefy Eco Battery DC to DC Converter Model A-1272. The image displays the black, finned converter unit with a multi-wire harness extending from one side, terminating in a white connector. The label on the converter indicates 'WIRING' with input and output specifications.

The converter is equipped with a heat sink design to dissipate heat efficiently during operation. The wiring harness includes clearly labeled wires for input and output connections.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the DC to DC converter:

1. **Mounting:** Select a dry, well-ventilated location for mounting the converter. Ensure it is secure and away from direct heat sources or moving parts.
2. **Disconnect Power:** Before making any electrical connections, ensure the main battery power source is completely disconnected.
3. **Input Wiring (High Voltage DC):**
 - Connect the **RED** input wire to the positive (+) terminal of your 40V-90V battery system.
 - Connect the **BLACK** input wire to the negative (-) terminal of your 40V-90V battery system.
 - Connect the **YELLOW** input wire to an ignition or switched positive (+) source. This wire typically activates the converter when the vehicle or system is turned on. If not used, ensure it is properly insulated.
4. **Output Wiring (12V DC):**
 - Connect the **RED** output wire to the positive (+) terminal of your 12V accessory or distribution block.
 - Connect the **BLACK** output wire to the negative (-) terminal or ground of your 12V accessory or distribution block.
5. **Secure Connections:** Ensure all connections are tight, secure, and properly insulated to prevent short circuits.
6. **Reconnect Power:** Once all connections are verified, reconnect the main battery power source.
7. **Test:** Turn on the ignition or switched source (if applicable) and verify that the 12V accessories are receiving power.

5. OPERATING INSTRUCTIONS

Once properly installed, the Sourcefy Eco Battery DC to DC Converter operates automatically. When the input voltage is supplied (and the ignition wire is activated, if connected), the converter will provide a stable 12V DC output. There are no user-adjustable settings on the unit itself.

6. MAINTENANCE

The Eco Battery DC to DC Converter is designed for minimal maintenance. Regular checks can help ensure its longevity and performance:

- **Visual Inspection:** Periodically inspect the converter and its wiring for any signs of damage, corrosion, or loose connections.
- **Cleaning:** Keep the converter free from dust and debris. Use a dry, soft cloth to clean the exterior. Do not use liquid cleaners.
- **Ventilation:** Ensure that the area around the converter remains clear to allow for adequate airflow and heat dissipation.

7. TROUBLESHOOTING

If you encounter issues with your DC to DC converter, consider the following:

- **No 12V Output:**
 - Check all input and output wiring connections for looseness or corrosion.
 - Verify that the main battery power is connected and providing the correct input voltage (40V-90V).
 - If an ignition wire (yellow) is used, ensure it is receiving a positive signal when the system is on.
 - Check for blown fuses in the input or output lines (if installed).
- **Incorrect Output Voltage:**
 - Ensure the input voltage is within the specified range (40V-90V).
 - Verify that the load connected to the 12V output does not exceed the converter's maximum current rating. Overloading can cause voltage drop.
- **Overheating:**
 - Ensure the converter has adequate ventilation and is not covered or obstructed.
 - Reduce the load on the 12V output if it is consistently running hot.

If problems persist after troubleshooting, contact Sourcefy customer support.

8. SPECIFICATIONS

- **Model Number:** A-1272
- **Brand:** Sourcefy
- **Input Voltage:** 40V to 90V DC (Applicable with 48-72V Batteries)
- **Output Voltage:** 12 Volts DC
- **UPC:** 704674777762
- **Manufacturer:** Sourcefy
- **Date First Available:** February 14, 2024

9. WARRANTY AND SUPPORT

This Sourcefy Eco Battery DC to DC Converter comes with a **6 Months Unlimited Warranty**. This warranty covers

defects in materials and workmanship under normal use.

For technical support, warranty claims, or further assistance, please contact Sourcefy customer service through their official channels. Please have your model number (A-1272) and purchase information ready when contacting support.