

Czomoizc EPC2430-EP-01, HB600-24b

Czomoizc 24V 30A Battery Charger User Manual

Models: EPC2430-EP-01, HB600-24b

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your Czomoizc 24V 30A Battery Charger. Please read this manual thoroughly before using the product.

This charger is designed for 24V battery systems and provides a 30A charging current. It is compatible with various equipment, including Signet, Genie, Skyjack, and JLG Scissor Lifts.

2. SAFETY INFORMATION

- Always connect the charger to a grounded outlet.
- Ensure proper ventilation during charging to prevent overheating.
- Do not operate the charger if it has been damaged or exposed to moisture.
- Keep out of reach of children.
- Disconnect power before making or breaking connections to the battery.
- Wear appropriate personal protective equipment, such as eye protection, when working with batteries.

3. PRODUCT OVERVIEW

The Czomoizc 24V 30A Battery Charger features a robust design with integrated cooling and clear indicators for charging status.



Figure 1: Top-down view of the Czomoizc 24V 30A Battery Charger, showing the main unit with cooling fins, fan, and attached power and battery cables.

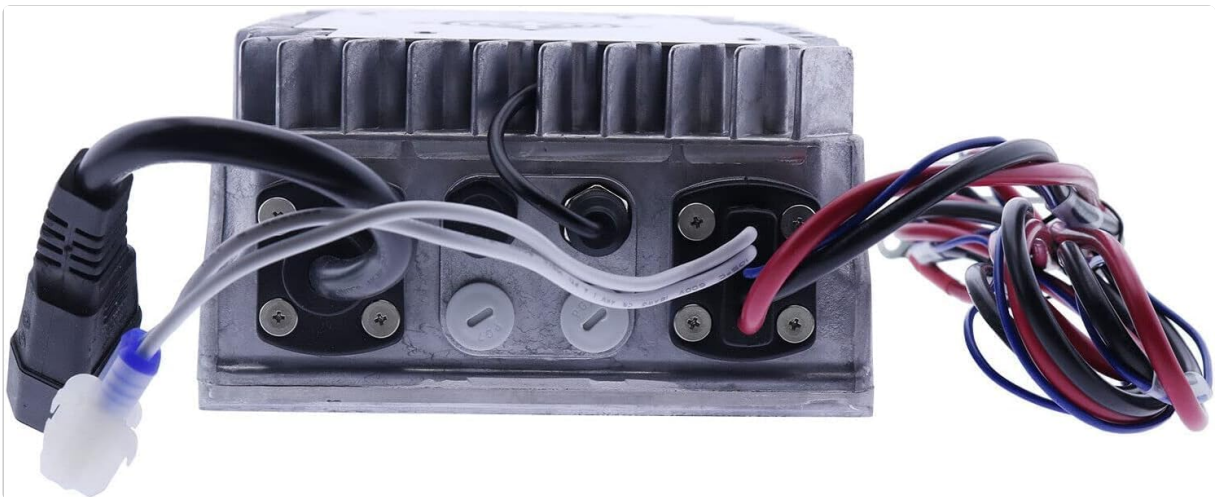


Figure 2: Front panel of the charger displaying LED indicators for charging progress (50%, 80%, 100%), fault status, VAC input, VDC battery, and ADC charging. Model number EPC2430-EP-01 and specifications are also visible.

Key Components:

- **Main Unit:** Houses the charging circuitry and cooling system.
- **LED Indicators:** Display charging status (50%, 80%, 100%), fault conditions, and power input/output.
- **Power Input Cable:** Connects to the AC power source.
- **Battery Output Cables:** Connect to the battery terminals.

4. SETUP

1. **Inspect the Charger:** Before initial use, visually inspect the charger for any signs of damage to the casing, cables, or connectors. Do not use if damaged.
2. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary,

clean them with a wire brush.

3. **Connect to Battery:** Connect the charger's positive (+) output cable (typically red) to the positive (+) terminal of the battery. Connect the negative (-) output cable (typically black) to the negative (-) terminal of the battery. Ensure connections are secure.
4. **Connect to Power:** Plug the charger's power input cable into a standard, grounded AC power outlet (100-240 Vac, 50/60 Hz).



Figure 3: Side view of the charger, illustrating the various input and output ports for power and battery connections. The robust heat sink design is also visible.

5. OPERATING INSTRUCTIONS

1. **Initiate Charging:** Once connected to both the battery and AC power, the charger will automatically begin the charging process.
2. **Monitor Indicators:** Observe the LED indicators on the front panel.
 - **50%, 80%, 100% LEDs:** Indicate the approximate charge level of the battery.
 - **Fault LED:** Illuminates if an error occurs (e.g., reverse polarity, short circuit, over-temperature). Refer to the Troubleshooting section.
 - **VAC Input LED:** Indicates AC power is connected.
 - **VDC Battery LED:** Indicates the charger is connected to a battery.
 - **ADC Charging LED:** Indicates active charging current flow.
3. **Charging Completion:** The 100% LED will illuminate when the battery is fully charged. The charger may then enter a float charge mode to maintain the battery's charge.
4. **Disconnecting:** To disconnect, first unplug the charger from the AC power outlet. Then, disconnect the negative (-) battery cable, followed by the positive (+) battery cable.

6. MAINTENANCE

- **Cleaning:** Periodically clean the exterior of the charger with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Cable Inspection:** Regularly inspect all cables and connectors for wear, cuts, or damage. Replace damaged cables immediately.
- **Ventilation:** Ensure the cooling fan and vents are free from dust and debris to maintain proper airflow.
- **Storage:** Store the charger in a cool, dry place when not in use.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on.	No AC power; faulty power cable; internal fault.	Check AC outlet and power cable connection. Ensure outlet is live. If problem persists, contact support.
Fault LED is illuminated.	Reverse polarity; short circuit; over-temperature; battery fault.	Disconnect from power and battery. Check battery connections for correct polarity. Inspect cables for shorts. Allow charger to cool if hot. Test battery condition.
Battery not charging.	Poor battery connection; deeply discharged battery; faulty battery.	Ensure battery cables are securely connected. Some chargers may not initiate charging on extremely low voltage batteries. Test battery health.

8. SPECIFICATIONS

Feature	Detail
Model Numbers	EPC2430-EP-01, HB600-24b
Input Voltage	100-240 Vac, 50/60 Hz
Output Voltage	24 Volts DC
Output Current	30 Amps
Product Dimensions	12 x 8 x 12 inches (30.5 x 20.3 x 30.5 cm)
Item Weight	7.04 pounds (3.19 kg)
Compatibility	Signet, Genie, Skyjack, JLG Scissor Lifts

9. WARRANTY INFORMATION

Specific warranty details are not provided in the product description. For warranty inquiries, please refer to the documentation included with your purchase or contact the manufacturer directly.

10. SUPPORT

For technical assistance or further information, please contact Czomoizc customer support through their official channels. Refer to your purchase documentation for contact details.

Manufacturer: Czomoizc