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> [EAFC 12V 8A Battery Charger User Manual](#)

## EAFC RJ-C120801A

# EAFC 12V 8A Battery Charger User Manual

Model: RJ-C120801A

## 1. INTRODUCTION

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Thank you for choosing the EAFC 12V 8A Battery Charger. This manual provides essential information for the safe and efficient operation of your device. Please read this manual thoroughly before use and retain it for future reference. This intelligent battery charger is designed for a wide range of 12V batteries, including AGM, GEL, LiFePO4, and lead-acid types, with capacities ranging from 2Ah to 150Ah. It is suitable for various vehicles such as cars, trucks, motorcycles, and recreational vehicles, offering advanced features like pulse repair and multi-mode charging.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent injury or damage to the charger or battery:

- Read all instructions before using the charger.
- Do not charge non-rechargeable batteries.
- Ensure proper ventilation during charging. Do not operate in a confined area.
- Avoid open flames or sparks near the battery during charging, as batteries can produce explosive gases.
- Wear eye protection and gloves when working with batteries.
- Keep out of reach of children.
- Do not expose the charger to rain or excessive moisture.
- Disconnect the power supply before making or breaking connections to the battery.
- If the battery becomes excessively hot during charging, immediately stop the charging process and allow it to cool down.
- This charger is equipped with multiple protection features including overcurrent, overcharge, overvoltage, short circuit, reverse polarity, and high-temperature protection. However, always exercise caution.

## 3. PRODUCT FEATURES

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- **Wide Compatibility:** Supports 12V AGM, GEL, LiFePO4, and lead-acid batteries (2Ah-150Ah).
- **Advanced Pulse Repair Function:** Helps recover sulfated or damaged batteries, potentially extending battery life.
- **Multi-Mode Charging:** Features normal charge and dual modes, adaptable to various battery conditions.

- **Intelligent LCD Display:** Shows real-time voltage, current, temperature, and charging status.
- **Automatic Temperature Compensation:** Adjusts charging parameters based on ambient temperature (winter/summer modes).
- **Multiple Safety Protections:** Built-in safeguards against overcharge, short circuit, reverse polarity, overheating, overcurrent, overvoltage, and undervoltage.
- **Portable and Compact Design:** Lightweight and easy to carry for workshop or home use.
- **Fast Charging:** Delivers 8A output for efficient charging.

## 4. PACKAGE CONTENTS

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Please check the package contents upon receipt:

- 1 x EAFC 12V 8A Battery Charger (Model: RJ-C120801A)
- 1 x User Manual (this document)

## 5. SETUP

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Before connecting the charger, ensure the battery terminals are clean and free of corrosion. Always connect the charger to the battery before plugging it into the AC power outlet.

1. **Connect the Red Clamp:** Attach the red positive (+) clamp to the positive (+) terminal of the battery.
2. **Connect the Black Clamp:** Attach the black negative (-) clamp to the negative (-) terminal of the battery.
3. **Connect to Power:** Plug the charger's AC power cord into a standard 110-260V AC wall outlet. The charger will automatically detect the battery type and condition.



Image: The EAFC 12V 8A Battery Charger with its red and black clamps, ready for connection. The digital display shows charging information.

## 6. OPERATING INSTRUCTIONS

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The EAFC battery charger features intelligent operation. Once connected, it will automatically begin the charging process based on the battery's condition.

### 6.1. Automatic Charging

Upon connection, the charger will perform an intelligent detection of the battery's voltage, current, and temperature. It will then automatically select the appropriate charging mode (e.g., normal charge, pulse repair) and adjust parameters for optimal charging.



Image: The charger's display indicating 8A fast charging, highlighting its efficiency.

## 6.2. Mode Selection

The charger allows manual mode selection for specific battery types or conditions. Press the "MODE" button to cycle through available charging modes:

- **CAR/TRUCK Mode:** For standard lead-acid batteries in cars and trucks.
- **AGM/GEL/LiFePO4 Mode:** For specific battery chemistries like AGM, Gel, and Lithium Iron Phosphate.
- **MOTORCYCLE Mode:** Optimized for smaller motorcycle batteries.
- **PULSE REPAIR Mode:** For desulfating and recovering old or damaged batteries.



Image: A hand interacting with the "MODE" button on the charger's display, illustrating mode selection.

## 6.3. Display Information

The LCD screen provides real-time information:

- **Voltage (V):** Current battery voltage.
- **Current (A):** Charging current.
- **Temperature (°C):** Ambient temperature, influencing automatic mode selection.
- **Battery Icon:** Indicates battery charge level.
- **Mode Indicator:** Shows the currently selected charging mode.

## 6.4. Climate Optimization

The charger automatically adjusts its charging strategy based on ambient temperature:

- **Winter Mode:** Activates automatically below 10°C for optimized cold-weather charging.
- **Summer Mode:** Activates automatically above 30°C for optimized hot-weather charging.



Image: The charger's display indicating automatic switching to winter mode (below 10°C) or summer mode (above 30°C) for climate optimization.

## 6.5. Disconnecting the Charger

Once charging is complete (indicated by the display), follow these steps to disconnect:

1. Unplug the AC power cord from the wall outlet.
2. Remove the black negative (-) clamp from the battery's negative (-) terminal.
3. Remove the red positive (+) clamp from the battery's positive (+) terminal.

## 7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your EAFC battery charger:

- **Cleaning:** Wipe the charger's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep cables neatly coiled.
- **Cable Inspection:** Regularly inspect the power cord and charging cables for any signs of damage, cuts, or fraying. Do not use the charger if cables are damaged.
- **Battery Terminals:** Ensure battery terminals are clean before connecting the charger to ensure good contact.

## 8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger not turning on.	No power from outlet; loose connection; faulty charger.	Check wall outlet with another device; ensure all connections are secure; contact customer support if issue persists.
Charger not charging battery.	Incorrect connection (reverse polarity); battery too deeply discharged; battery is faulty; incorrect mode selected.	Verify correct polarity (+ to + and - to -); some deeply discharged batteries may not be recognized (try a different charger or professional help); test battery condition; ensure correct mode is selected for battery type.
Display shows error code or abnormal readings.	Internal fault; extreme temperature; battery issue.	Disconnect and reconnect the charger; ensure operating within recommended temperature range; check battery for damage.
Battery gets hot during charging.	Battery fault; overcharging; poor ventilation.	Immediately disconnect the charger. Allow battery to cool. Consult a professional if battery continues to overheat. Ensure adequate ventilation.

If the problem persists after trying these solutions, please contact EAFC customer support.

## 9. SPECIFICATIONS

Parameter	Value
Brand	EAFC
Model	RJ-C120801A
Input Voltage	110-260V AC
Output Voltage	12V DC (Max 15.5V)
Rated Output Current	8A
Battery Compatibility	12V AGM, GEL, LiFePO4, Lead-Acid
Battery Capacity Range	2Ah - 150Ah
Product Dimensions (L x W x H)	14.6 x 6 x 8.1 cm (5.75 x 2.36 x 3.19 inches)
Product Weight	420 g (0.93 lbs)
Power Cable Length	Approx. 1.4 m (55 inches)
Output Cable Length	Approx. 0.55 m (21.65 inches)
Certifications	CE, FCC



Image: Detailed dimensions of the EAFC battery charger, including cable lengths and overall size.

## 10. WARRANTY AND SUPPORT

EAFC is committed to providing high-quality products and customer satisfaction. While specific warranty details are not provided in this manual, we offer comprehensive customer support.

If you have any questions, concerns, or require assistance with your EAFC 12V 8A Battery Charger, please do not hesitate to contact our customer service team. We are dedicated to providing detailed answers and support to ensure your product experience is satisfactory.

For support, please refer to the contact information provided on the product packaging or the official EAFC website.