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Ring RSC804

Ring Automotive RSC804 4A Smart Car Battery Charger & Maintainer User Manual

Model: RSC804

1. INTRODUCTION AND OVERVIEW

The Ring Automotive RSC804 is a 4A smart battery charger and maintainer designed for a wide range of 6V and 12V vehicle batteries. It is compatible with Lead Acid, Gel, Calcium, EFB, and AGM battery types, including those found in START/STOP vehicles. This device ensures your battery remains in optimal condition by preventing overcharging and automatically transitioning to a long-term maintenance mode once fully charged. Its user-friendly design features one-button operation and a clear, backlit LCD display for easy monitoring of the charging process. The RSC804 incorporates essential safety features such as reverse polarity and short-circuit protection, providing a secure and reliable charging experience.

2. SAFETY INFORMATION

Please read all safety instructions before using the charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always wear eye protection and protective clothing when working with batteries.
- Ensure adequate ventilation in the charging area to prevent the accumulation of explosive gases.
- Do not smoke or allow sparks or flames near the battery or charger.
- Disconnect the AC power supply from the charger before connecting or disconnecting the battery leads.
- Never charge a frozen or damaged battery.
- The charger is equipped with reverse polarity and short-circuit protection. However, always ensure correct polarity connections (positive to positive, negative to negative) to prevent damage.
- Keep the charger away from water and moisture. The unit is IP65 weatherproof, but direct submersion should be avoided.

- Do not attempt to open or modify the charger. Refer all servicing to qualified personnel.

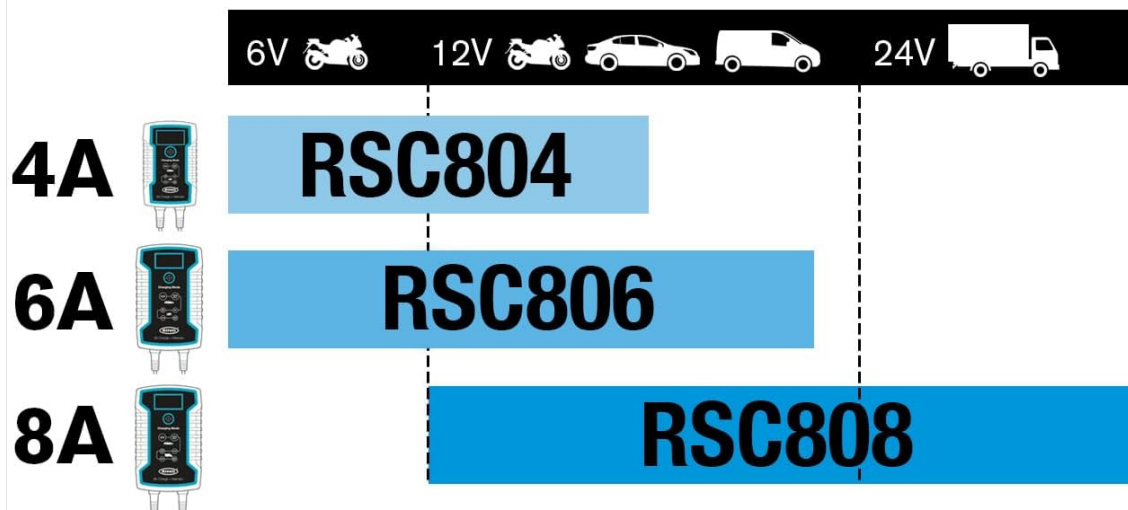
3. WHAT'S IN THE BOX

Upon opening the package, verify that all components are present:

- Ring Automotive RSC804 Smart Battery Charger
- Connectors with battery clamps
- O-ring terminals for long-term connection
- User Manual

WHICH MODEL IS RIGHT FOR ME?

Choose the right smart charger for your needs



All smart chargers are start/stop compatible

Image: Contents of the Ring Automotive RSC804 box, showing the charger, battery clamps, O-ring terminals, and user manual.

4. SETUP INSTRUCTIONS

Follow these steps to safely set up your battery charger:

1. **Prepare the Battery:** Ensure the battery terminals are clean and free from corrosion. If necessary, clean them with a wire brush.
2. **Connect to Battery:**
 - **Using Clamps:** Connect the red (positive) clamp to the positive (+) battery terminal. Connect the black (negative) clamp to the negative (-) battery terminal. Ensure a secure connection.
 - **Using O-Ring Terminals (for long-term connection):** Attach the red O-ring terminal to the positive (+) battery post and the black O-ring terminal to the negative (-) battery post. Secure them with the battery nuts.
3. **Connect to Power:** Once the battery leads are securely connected, plug the charger's AC power cord into a suitable 230V mains outlet.
4. **Initial Check:** The charger's LCD display will illuminate, indicating it is powered on and ready for operation.



Image: Ring Automotive RSC804 charger connected to a car battery using clamps, illustrating a typical setup.

CHARGE AND MAINTAIN



Image: Close-up of the RSC804 charger connected to a car battery, demonstrating proper terminal attachment.

5. OPERATING INSTRUCTIONS

Operating the RSC804 charger is straightforward:

1. **Power On:** After connecting the charger to the battery and mains power, the charger will automatically power on.
2. **Select Charging Mode:** Use the single button on the charger to cycle through the available charging modes. The backlit LCD display will show the selected mode (e.g., 6V, 12V Car, 12V Motorcycle). Select the mode appropriate for your battery type and voltage.
3. **Monitor Charging Progress:** The LCD display provides real-time information including:
 - **Battery Voltage:** Displays the current voltage of the battery.
 - **Charge Progress:** An icon or indicator shows the battery's charging status.
 - **Selected Mode:** Confirms the active charging program.

4. **Automatic Maintenance:** Once the battery reaches full charge, the RSC804 will automatically switch to a maintenance (trickle charge) mode. This prevents overcharging and keeps the battery optimally charged for extended periods.
5. **Disconnecting:** To disconnect the charger, first unplug the AC power cord from the mains outlet. Then, disconnect the negative (-) battery lead, followed by the positive (+) battery lead.

SAFE AND EASY TO USE

For traditional and Start/Stop batteries

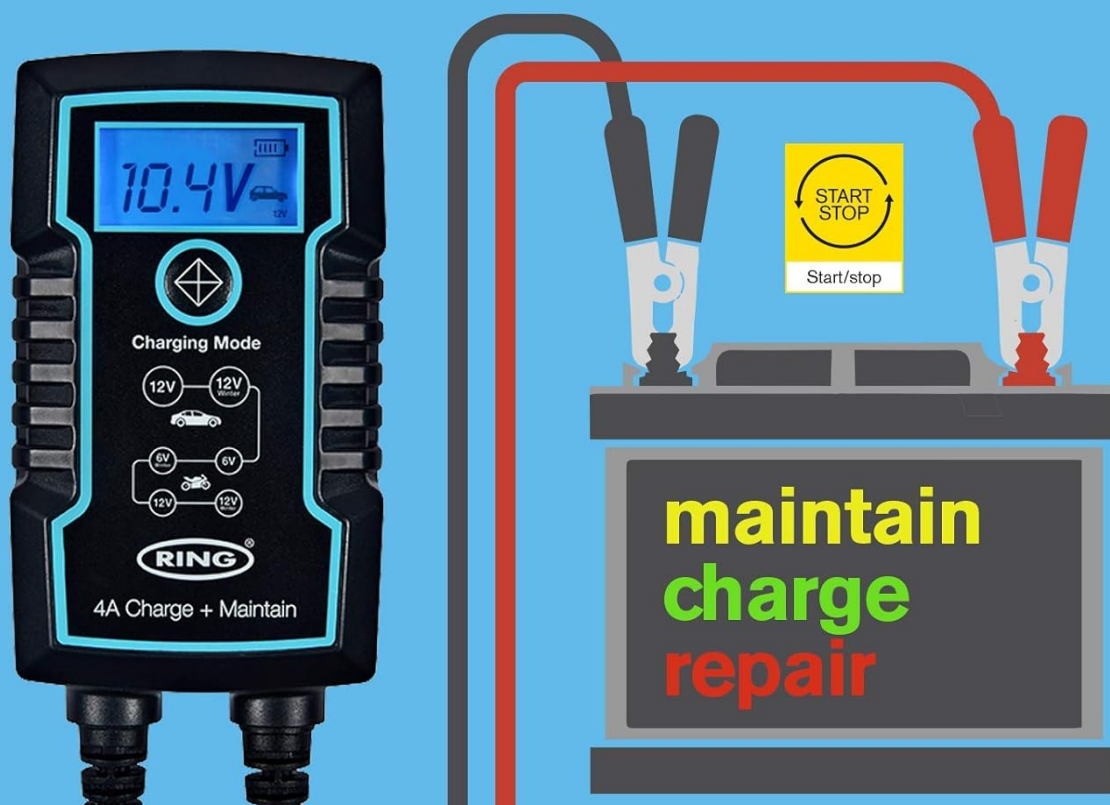
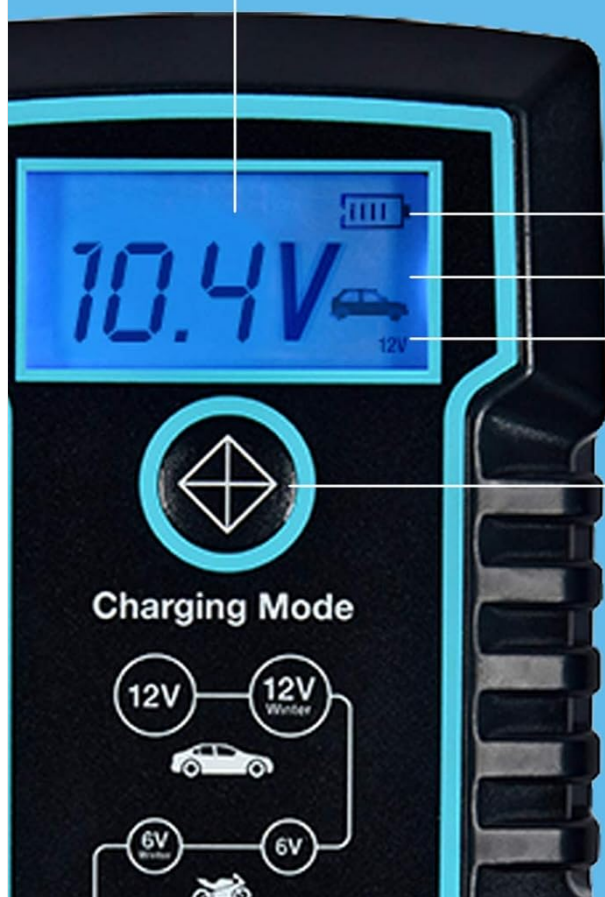


Image: Detailed view of the RSC804's backlit LCD display, highlighting voltage, charge progress, and mode selection.

CLEAR TO SEE



Backlit LCD display
clearly see your progress
even in low light

Charge progress

Battery voltage

Selected mode

One button operation
quick and easy charging
mode selection

Image: The RSC804 charger's rugged and weatherproof (IP65) design, suitable for various environments.

7. TROUBLESHOOTING

If you encounter issues with your RSC804 charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger does not power on.	No AC power, faulty outlet, damaged power cord.	Check mains power supply. Try a different outlet. Inspect power cord for damage.
Charger connected but not charging.	Incorrect battery connection, wrong mode selected, deeply discharged battery.	Ensure correct polarity and secure connections. Select the appropriate 6V or 12V mode. For deeply discharged batteries, the charger may take some time to initiate charging.
Error message or indicator light.	Reverse polarity, short circuit, internal fault.	Disconnect immediately. Recheck battery connections for correct polarity. If error persists, contact customer support.
Battery not fully charging.	Battery fault, incorrect mode, charger fault.	Have the battery tested by a professional. Ensure the correct charging mode is selected. If the battery is confirmed good, contact customer support.

If troubleshooting steps do not resolve the issue, please contact Ring Automotive customer support for further assistance.

8. SPECIFICATIONS

Specification	Value
Model Number	RSC804
Input Voltage	230 Volts AC
Output Voltage	6V / 12V DC
Current Rating (Amperage)	4 Amps
Wattage	60W
Battery Compatibility	Lead Acid, Gel, Calcium, EFB, AGM
Number of Ports	1
Item Weight	760 Grams
Color	Black
Protection Features	Reverse Polarity, Short-Circuit, Overcharging
Weatherproof Rating	IP65

9. WARRANTY AND SUPPORT

This Ring Automotive product is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Ring Automotive website. In case of product defects or operational issues not resolved by the troubleshooting guide, please contact Ring Automotive customer support. Have your model number (RSC804) and proof of purchase ready when contacting support. For the most up-to-date support information and contact details, please visit the official Ring Automotive website.