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Retoo E620

Retoo 12V 1.5A Gel Battery Charger E620 User Manual

Model: E620 | Brand: Retoo

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your Retoo 12V 1.5A Gel Battery Charger, Model E620. This automatic charger is designed for 12V gel batteries with capacities ranging from 1.3Ah to 65Ah, suitable for a variety of vehicles and applications.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the charger. Failure to do so may result in injury or damage to the charger or battery.

- **Indoor Use Only:** This charger is designed for indoor use. Do not expose it to rain, moisture, or extreme temperatures.
- **Ventilation:** Ensure adequate ventilation during charging. Batteries can produce explosive gases.
- **Eye Protection:** Always wear eye protection when working with batteries.
- **Correct Battery Type:** Only use this charger for 12V gel batteries within the specified capacity range (1.3Ah to 65Ah). Do not attempt to charge non-rechargeable batteries or other battery types.
- **Polarity:** Connect the red (+) clamp to the positive battery terminal and the black (-) clamp to the negative battery terminal. Incorrect polarity can cause damage.
- **Disconnect Power First:** Always disconnect the charger from the AC power outlet before connecting or disconnecting the battery clamps.
- **Damaged Cables:** Do not operate the charger if the cables or housing are damaged. Contact customer support for assistance.
- **Children and Pets:** Keep the charger and battery out of reach of children and pets.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Retoo 12V 1.5A Gel Battery Charger (Model E620) with integrated charging cable and clamps

4. PRODUCT FEATURES

- **Automatic Charging:** Intelligently selects the correct charging voltage for 12V gel batteries.
- **Wide Compatibility:** Suitable for 12V gel batteries from 1.3Ah to 65Ah, commonly found in classic cars, motorcycles, scooters, lawnmowers, boats, cars, caravans, and 12V children's ride-on toys.
- **LED Indicator:** Provides clear status updates (red for charging, green for fully charged/maintenance mode).
- **Safety Protections:** Equipped with overvoltage protection to safeguard the battery and charger.
- **Maintenance Mode:** Automatically switches to trickle charge mode once the battery is fully charged, preventing overcharging.
- **Compact Design:** Small and lightweight for easy storage and portability.

5. SETUP

Follow these steps to prepare your charger for use:

1. Ensure the charger is disconnected from the main power outlet.
2. Identify the positive (+) and negative (-) terminals on your 12V gel battery.
3. Connect the **red (+) clamp** of the charger to the **positive (+) terminal** of the battery.
4. Connect the **black (-) clamp** of the charger to the **negative (-) terminal** of the battery.
5. Ensure both clamps are securely attached to the battery terminals.



Image: Close-up view of the red positive and black negative battery clamps.



Image: The Retoo charger connected to a battery, showing a red LED light indicating that charging is in progress.

6. OPERATING INSTRUCTIONS

Once the charger is correctly connected to the battery:

1. Plug the charger's power cord into a standard 230V AC wall outlet.
2. The LED indicator on the charger will illuminate:
 - A **red LED** indicates that the battery is currently charging.
 - A **green LED** indicates that the battery has reached its optimal charge level and the charger has switched to maintenance (trickle charge) mode.
3. Allow the battery to charge until the LED turns green.
4. To disconnect, first unplug the charger from the 230V AC wall outlet.
5. Then, carefully disconnect the black (-) clamp from the battery, followed by the red (+) clamp.



Image: The Retoo charger displaying a green LED, alongside an icon of a fully charged battery, indicating the charging cycle is complete and the battery is in maintenance mode.



Image: The Retoo charger with a green LED and '12V' text, illustrating its use for motorcycle batteries.

7. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your charger.

- **Cleaning:** Disconnect the charger from power and the battery before cleaning. Wipe the exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place, away from direct sunlight and moisture. Keep cables neatly coiled.
- **Cable Inspection:** Regularly inspect the power cord and charging cables for any signs of damage, fraying, or exposed wires. Do not use if damaged.



Image: The Retoo charger with its power cord and battery clamps neatly secured, highlighting its compact and portable design for easy storage.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger LED does not light up.	No power from outlet; loose connection; faulty charger.	Check power outlet with another device. Ensure charger is securely plugged in. Verify battery clamps are correctly connected. If problem persists, charger may be faulty.
Red LED stays on for a very long time or never turns green.	Battery is deeply discharged or damaged; incorrect battery type.	Allow more time for charging if battery is deeply discharged. If it never turns green, the battery might be damaged and unable to hold a charge. Ensure you are charging a 12V gel battery.

Problem	Possible Cause	Solution
Charger gets warm during operation.	Normal operation.	It is normal for the charger to become warm during charging. Ensure adequate ventilation around the charger. If it becomes excessively hot, disconnect immediately and contact support.

9. SPECIFICATIONS

Specification	Detail
Brand	Retoo
Model	E620
Input Voltage	240V AC
Output Voltage	12V DC
Output Current	1.5A
Compatible Battery Type	12V Gel Batteries
Battery Capacity Range	1.3Ah - 65Ah
Connector Type	Battery Clamps (Crocodile Clips)
Product Dimensions	8.2 x 5 x 3.1 cm
Weight	99 g

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact the retailer. Keep your proof of purchase for any warranty claims.

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