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› XL Perform Tools 553984 Automatic Battery Charger User Manual

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XL Perform Tools 553984 Automatic Battery Charger User Manual

Model: 553984 | For 6V and 12V Lead-Acid Batteries (3-15Ah)

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your XL Perform Tools 553984 Automatic Battery Charger. Please read this manual thoroughly before operating the device and retain it for future reference. This charger is designed for charging and maintaining 6V and 12V lead-acid batteries with capacities between 3 Ah and 15 Ah.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Always connect the charger to a grounded power outlet.
- Ensure the charger is disconnected from the power supply before making or breaking connections to the battery.
- Do not charge frozen batteries.
- Do not use the charger if the cables or housing are damaged.
- Keep the charger away from flammable materials and sources of ignition.
- Ensure adequate ventilation during charging to prevent gas accumulation.
- Wear eye protection and protective clothing when working with batteries.
- Keep out of reach of children.
- This charger is designed for lead-acid batteries only. Do not use with other battery types.
- Avoid short-circuiting the battery clamps.

3. PACKAGE CONTENTS

- 1 x XL Perform Tools 553984 Automatic Battery Charger
- 1 x User Manual (this document)

4. PRODUCT OVERVIEW

The XL Perform Tools 553984 is a compact, automatic battery charger designed for ease of use and safety. It features intelligent charging and maintenance modes for various lead-acid battery types.



Figure 4.1: The XL Perform Tools 553984 Automatic Battery Charger with its attached battery clamps.



Figure 4.2: Front view of the charger unit, showing the "SELECT" button and indicators for 6V and 12V battery types.



Figure 4.3: This charger is compatible with various lead-acid battery types, including Wet, VRLA, AGM, EFB, Gel, and Maintenance-Free (MF) batteries.

5. SETUP

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If charging a liquid electrolyte battery, check the fluid levels and top up if necessary (use distilled water only).
2. **Connect to Battery:**
 - Connect the **red (+)** clamp to the positive (+) battery terminal.
 - Connect the **black (-)** clamp to the negative (-) battery terminal.
 - Ensure connections are secure.
3. **Connect to Power:** Plug the charger's power cord into a standard 230V AC wall outlet.
4. **Select Voltage:** Press the "SELECT" button on the charger to choose between 6V or 12V, matching your battery's voltage. The corresponding LED indicator will illuminate.



Figure 5.1: Proper connection of the charger to a battery and a power outlet.

6. OPERATING INSTRUCTIONS

Once connected and the correct voltage is selected, the charger will automatically begin the charging process. The charger features multiple stages for optimal battery health.

- **Charging Indicator:** A green LED will illuminate when the battery is charging.
- **Full Charge / Maintenance Mode:** When the battery is fully charged, the charger will automatically switch to maintenance mode. The green LED may change its behavior (e.g., solid green or flashing, refer to specific LED patterns on the device if available). This mode prevents overcharging and keeps the battery at an optimal level.
- **Error Indicator:** A red warning LED (often with an exclamation mark or triangle symbol) will illuminate if an error occurs, such as reverse polarity or a short circuit. Disconnect the charger immediately and check connections.



Figure 6.1: The charger indicating operation with a green light when plugged in and connected correctly.

Important Notes:

- The charger is designed to protect against overcharge, reverse polarity, short circuits, and overheating.
- It is recommended for batteries between 3 Ah and 15 Ah. Using it on batteries outside this range may not yield optimal results.

7. MAINTENANCE

- **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 abrasives.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep cables neatly coiled.
- **Cable Inspection:** Periodically inspect the power cord and battery cables for any signs of damage (cuts, fraying, exposed wires). Do not use if damaged.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on / No lights	No power from outlet; Faulty connection; Damaged charger.	Check power outlet with another device. Ensure power cord is securely plugged in. Inspect charger for damage.
Red error light illuminated	Reverse polarity; Short circuit; Battery fault.	Disconnect charger. Verify positive (+) and negative (-) clamp connections are correct. Check for any short circuits. If problem persists, the battery may be faulty.
Battery not charging	Incorrect voltage selected; Battery too deeply discharged; Battery faulty.	Ensure correct 6V or 12V setting is selected. Some deeply discharged batteries may not be recoverable. Have battery tested by a professional.

9. SPECIFICATIONS

- **Model:** 553984
- **Input Voltage:** 230V AC, 50/60Hz (Standard mains power)
- **Output Voltage:** 6V DC / 12V DC (Automatic selection)
- **Charging Current:** Max 1A
- **Battery Capacity:** 3 Ah to 15 Ah
- **Compatible Battery Types:** Lead-acid (Wet, V/CA, Ca/Ca, MF, VRLA, AGM, EFB, Gel)
- **Protection Features:** Overcharge, Reverse Polarity, Short Circuit, Overheating
- **Dimensions (Charger only):** 103 x 69 x 71 mm (L x W x H)
- **Clamp Cable Length:** 148 cm
- **Manufacturer:** IMPEX SAS
- **Country of Origin:** China

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the retailer where the product was purchased or contact XL Perform Tools customer service. Keep your proof of purchase for warranty claims. Information regarding software updates and spare parts availability is not provided at this time.

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