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## Schumacher Electric SC1300

# Schumacher Electric SC1300 1.5A Battery Charger and Maintainer User Manual

Model: SC1300

## 1. INTRODUCTION

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The Schumacher Electric SC1300 is a fully automatic 1.5 Amp battery charger and maintainer designed for 6V and 12V lead-acid batteries, including standard, AGM, and gel types. This device offers a 3-in-1 solution for charging, maintaining, and reconditioning batteries, making it suitable for power sport, automotive, and marine applications. Its intelligent design ensures safe and efficient battery care without the risk of overcharging.



A front view of the Schumacher Electric SC1300 1.5A Battery Charger and Maintainer, showing its compact design, AC plug, and battery ring terminals.

## 2. IMPORTANT SAFETY INSTRUCTIONS

**WARNING: RISK OF EXPLOSIVE GASES. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL OPERATION. ALWAYS WORK IN A WELL-VENTILATED AREA.**

- Read all instructions before using the product.
- Do not expose the charger to rain or excessive moisture.
- Wear eye protection and protective clothing when working with batteries.
- Never smoke or allow a spark or flame in the vicinity of the battery or engine.
- Ensure the charger is disconnected from the AC power outlet before making or breaking connections to the battery.
- This charger is equipped with reverse polarity protection, but always ensure correct connection (positive to

positive, negative to negative or chassis ground).

- Keep out of reach of children.

### 3. PRODUCT FEATURES

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The Schumacher SC1300 offers several key features for optimal battery care:

- **3-in-1 Functionality:** Acts as a battery charger, maintainer, and desulfator.
- **Fully Automatic Operation:** Detects battery condition and adjusts charge rate, entering trickle mode when optimal levels are reached.
- **1.5 Amp Charging:** Efficiently charges and maintains 6V and 12V batteries.
- **Wide Compatibility:** Suitable for standard, AGM, and gel batteries in various vehicles including motorcycles, ATVs, cars, trucks, and marine vessels.
- **Battery Reconditioning:** Advanced desulfation mode helps extend battery life and improve performance.
- **Safety Features:** Includes reverse polarity protection, non-sparking ring leads, and automatic shutoff.
- **Compact Design:** Easy to install and mount, even in engine compartments (mounting bracket sold separately).

⚡ 1.5A | 6V/12V

# 3 IN 1



**BATTERY CHARGER**



**DESULFATOR**

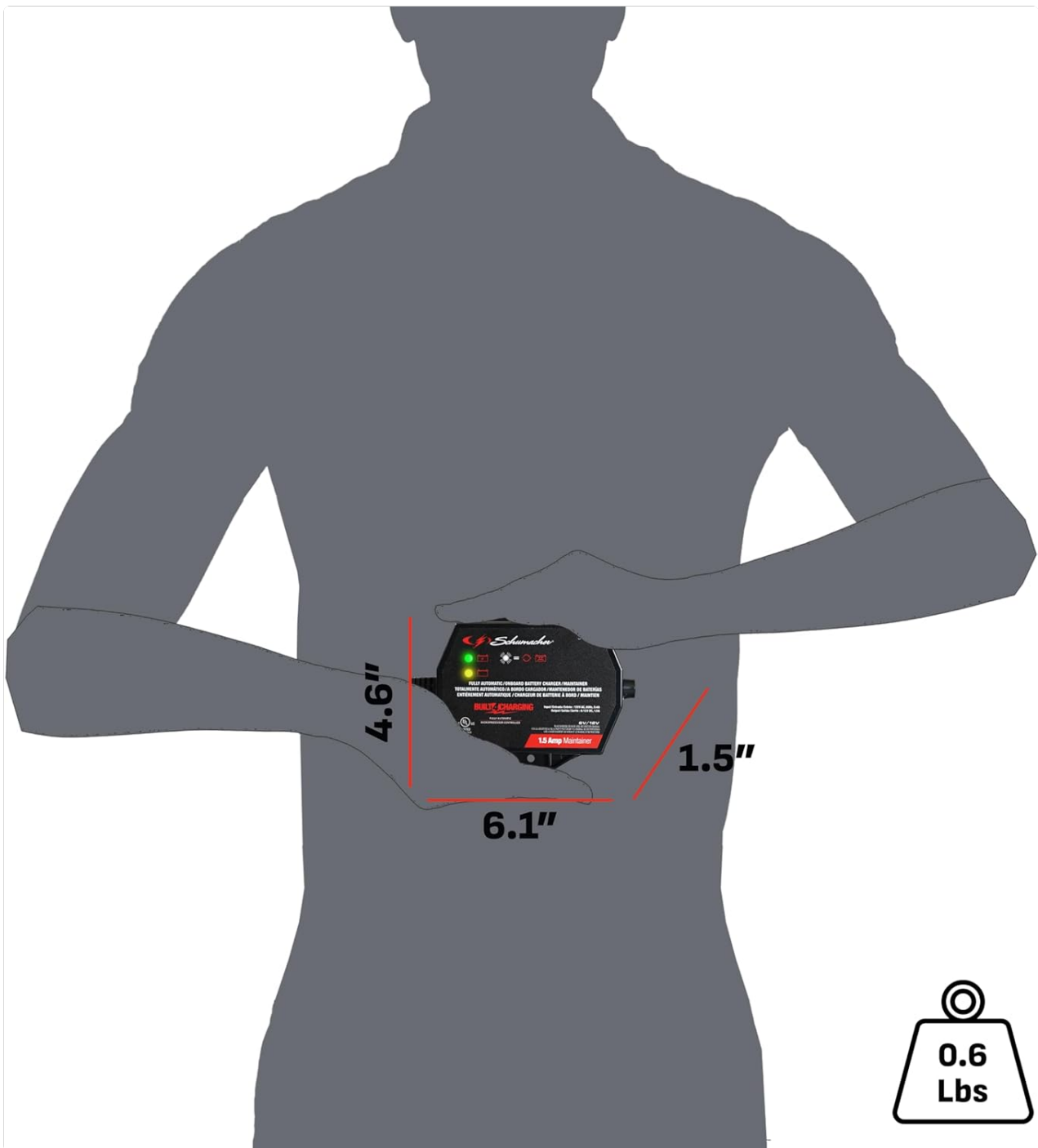


**BATTERY MAINTAINER**



An illustration highlighting the three primary functions of the Schumacher SC1300: battery charging, desulfation, and battery maintenance.

## Component Overview



A detailed diagram of the Schumacher SC1300, labeling its key components including the LED indicator, ring terminals with 15-inch reach, AC power cord with 17-inch reach, and mounting holes.

## 4. SETUP AND INSTALLATION

The SC1300 is designed for easy connection and can be permanently installed or used as a portable charger.

### Connecting to a Battery

1. Ensure the charger is unplugged from any AC power source.
2. Identify the positive (+) and negative (-) terminals on your battery.
3. Connect the positive (red) ring terminal from the charger to the positive (+) battery post.

4. Connect the negative (black) ring terminal from the charger to the negative (-) battery post. For vehicle applications, you may connect the negative terminal to the vehicle chassis away from the battery.
5. Ensure all connections are secure.



A close-up image showing hands connecting the ring terminals of the Schumacher SC1300 battery charger to the terminals of a car battery.

## Mounting (Optional)

The SC1300 features mounting holes for permanent installation. A Schumacher mounting bracket (sold separately) can be used to secure the unit in the engine compartment or other suitable locations. Ensure the mounting location is well-ventilated and away from heat sources or moving parts.

## 5. OPERATING INSTRUCTIONS

The SC1300 is fully automatic, simplifying the charging process.

1. Ensure all vehicle accessories are turned off.

2. Connect the charger to the battery as described in the 'Setup and Installation' section.
3. Plug the AC power cord into a standard 120V AC outlet.
4. The charger will automatically begin the charging process. The LED indicator will show the charging status:
  - **Red LED:** Indicates charging is in progress.
  - **Green LED:** Indicates the battery is fully charged and the charger has switched to maintenance mode.
5. Once the green LED illuminates, the battery is fully charged and can be left connected for long-term maintenance.



Visual guide for connecting and charging a battery with the Schumacher SC1300, detailing the steps and LED indicators.

## Disconnecting the Charger

1. Unplug the AC power cord from the outlet.
2. Remove the negative (black) ring terminal from the battery or chassis ground.
3. Remove the positive (red) ring terminal from the battery.

## 6. MAINTENANCE

The Schumacher SC1300 requires minimal maintenance. Regular checks can ensure its longevity and optimal performance.

- **Cleaning:** Keep the charger casing clean and free from dirt and debris. Use a dry cloth for cleaning. Do not use solvents or abrasive cleaners.
- **Cable Inspection:** Periodically inspect the AC power cord and battery leads for any signs of damage, cuts, or fraying. Do not use the charger if cables are damaged.
- **Storage:** When not in use, store the charger in a cool, dry place.
- **Battery Maintenance:** For long-term storage of vehicles or batteries, connect the SC1300 to maintain the battery's charge. The automatic trickle charge mode prevents overcharging and sulfation.

## 7. TROUBLESHOOTING

If the charger is not operating as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
No LED indicator when plugged in.	No AC power; faulty outlet; charger malfunction.	Check AC outlet with another device. Ensure charger is properly plugged in. If problem persists, contact support.
Red LED does not illuminate after connecting to battery and AC power.	Incorrect battery connection; battery is already fully charged; severely discharged battery.	Verify positive and negative connections. Check battery voltage. If battery is severely discharged, it may require a different charging method or replacement.
Charger gets warm during operation.	Normal operation.	Some warmth is normal during charging. Ensure adequate ventilation around the charger.
Green LED does not illuminate after extended charging.	Battery may be damaged or unable to hold a charge.	Have the battery tested by a professional.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	SC1300
Input Voltage	120V AC, 60Hz, 0.4A
Output Voltage	6V / 12V DC
Output Current	1.5 Amps
Battery Types	Standard, AGM, Gel
Product Dimensions	5.87"D x 1.87"W x 9.12"H (approx. 9 x 2 x 5.9 inches)
Item Weight	0.7 Pounds (approx. 11.2 ounces)
AC Power Cord Length	17 inches
Ring Terminal Lead Length	15 inches

## 9. WARRANTY AND SUPPORT

For warranty information, product registration, and customer support, please refer to the official Schumacher

Electric website or contact their customer service directly. Details are typically provided in the product packaging or on the manufacturer's website.

**Manufacturer:** Schumacher Electric

**Website:** [www.schumacherelectric.com](http://www.schumacherelectric.com)