

- Manuals.plus /
- > [Genérico](#) /
- > Genérico 12V/6Amp Smart Automotive Battery Charger User Manual (Model RJ-C120501A)

Genérico RJ-C120501A

Genérico 12V/6Amp Smart Automotive Battery Charger User Manual

Model: RJ-C120501A

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation of your Genérico 12V/6Amp Smart Automotive Battery Charger. This intelligent charger is designed for 12V lead-acid batteries, including AGM, GEL, SLA, and WET types, with capacities ranging from 2Ah to 100Ah. It features a micro-processor controlled 4-stage charging process, temperature adaptation, and a pulse repair function for optimal battery maintenance.



Front view of the Genérico 12V/6Amp Smart Automotive Battery Charger, showing its compact design, digital display, and connection cables with alligator clips.

2. SAFETY INFORMATION

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

- **Ventilation:** Ensure adequate ventilation when charging. Batteries can produce explosive gases.
- **Eye and Skin Protection:** Always wear eye protection and protective clothing when working with batteries.
- **Avoid Sparks:** Do not smoke or allow a spark or flame in the vicinity of the battery or engine.
- **Connection Order:** Connect and disconnect the DC output clamps only after setting the AC cord to the OFF position or unplugging it from the electrical outlet.
- **Polarity:** Connect the red (+) clamp to the positive terminal and the black (-) clamp to the negative terminal. Ensure correct polarity to prevent damage.
- **Children:** Keep the charger out of reach of children.
- **Damaged Charger:** Do not operate the charger if it has been dropped or damaged.
- **Indoor Use:** This charger is designed for indoor use. Do not expose it to rain or excessive moisture.

3. PRODUCT FEATURES

The Genérico Smart Automotive Battery Charger incorporates advanced technology for efficient and safe battery charging and maintenance.

- **Microprocessor Control:** A four-stage charging process ensures optimal application for efficient battery charging.
- **Temperature Compensation:** Charging voltage is automatically adapted to the ambient temperature, preventing overcharge or undercharge.
- **Pulse Repair Mode:** Capable of recharging severely discharged or sulfated batteries, helping to restore their capacity.
- **Safety Protections:** Includes reverse polarity protection, short-circuit protection, and spark-free connection.
- **LCD Display:** Provides real-time information on voltage, current, temperature, and charging status.
- **Automatic Operation:** Fully controlled by a microprocessor, preventing overcharging even if the battery remains connected.
- **Vehicle Mode Selection:** Offers specific modes for different battery sizes:
 - **Car/Truck Mode:** Fast charge for larger batteries (12V, up to 6A).
 - **Motorcycle Mode:** Slower charge for smaller batteries (up to 2A).

ONE BUTTON REPAIR ACTIVATED BATTERY

Solve Battery Power Deficit, Charging, Large Internal Resistance
And Other Problems Using High And Low Frequency Pulse
Technology, Let Your Battery Look Brand-New



Visual representation of the charger's main features, including intelligent repair, automatic winter/summer mode detection, multiple safety protections, and intelligent battery detection.



Diagram illustrating the internal smart AI chip, which provides CPU precise control and intelligent shutdown mechanisms for safe and efficient charging.

4. SPECIFICATIONS

Feature	Specification
Brand	Genérico
Model	RJ-C120501A
Manufacturer	RJ Tianye
Color	Black and Red
Product Dimensions (L x W x H)	14.99 x 8.48 x 6.2 cm (5.9 x 3.34 x 2.44 in)
Weight	458 grams (1 lb)
Input AC	110-220V 50/60Hz
Output Voltage	13.8V-15.5V
Output Current	6 Amperes (6Ah)
No-Load Output Voltage	13.8V
Minimum Start Voltage	> 2V
Applicable Battery Range	12V 2Ah - 100Ah
Battery Cell Composition	Lead-Acid (AGM, GEL, SLA, WET)

Feature	Specification
Max Input Power (Load)	130W
No-Load Input Power	3.2W
Operating Temperature Range	-20°C to 45°C
Storage Temperature Range	-30°C to +70°C
Operating Humidity Range	90% RH Max
Material Type	Electronic, Plastic, Copper

5. SETUP

Follow these steps to correctly set up your battery charger:

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion.
2. **Connect Red Clamp:** Connect the red (+) clamp of the charger to the positive (+) terminal of the battery.
3. **Connect Black Clamp:** Connect the black (-) clamp of the charger to the negative (-) terminal of the battery.
4. **Connect to AC Power:** Plug the charger's AC power cord into a suitable electrical outlet (110-220V).
5. **Automatic Start:** The charger will automatically initiate the charging process once connected to AC power.



**Reparo
inteligente**



**Modo inverno
e verão**



**Múltiplas
proteções**



An instructional diagram demonstrating the correct connection procedure: red clamp to the positive (+) terminal and black clamp to the negative (-) terminal of a lead-acid battery.



Close-up of the red and black alligator clips securely connected to the positive and negative terminals of a car battery, ready for charging.

6. OPERATING INSTRUCTIONS

The charger operates largely automatically, but understanding its modes is beneficial.

6.1 Charging Process

Once connected, the charger will automatically detect the battery type and condition, then begin the 4-stage charging process:

1. **Desulfation:** If needed, high-frequency pulse charges break down lead sulfate crystals.
2. **Soft Start:** A gentle charge to ensure the battery can accept a full charge.
3. **Bulk Charge:** Charges the battery to approximately 80% capacity at maximum current.

4. **Absorption Charge:** Charges the battery to 100% capacity at a decreasing current.
5. **Float/Maintenance:** Maintains the battery at full charge, preventing self-discharge.

6.2 Mode Selection

The charger features a 'MODE' button to select between different charging profiles. The intelligent system typically adjusts automatically, but manual selection is available:

- **Car/Truck Mode:** For larger 12V batteries, providing up to 6A fast charge.
- **Motorcycle Mode:** For smaller 12V batteries, providing up to 2A slow charge.
- **Pulse Repair Mode:** Activated by pressing the 'MODE' button until the 'Recovery' icon appears. This mode is designed to recover deeply discharged or sulfated batteries.



A close-up of the charger's LCD display, showing voltage (13.8V), temperature, battery charge level, and selected charging mode icons.



The charger's display indicating the 'Recovery' function, used for repairing severely discharged or sulfated batteries.

7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your battery charger.

- **Cleaning:** Disconnect the charger from AC power and the battery before cleaning. Wipe the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasives.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly coiled and not kinked.
- **Cable Inspection:** Regularly inspect the AC cord and charging cables for any signs of damage, cuts, or fraying. Do not use if damaged.
- **Ventilation:** Keep the charger's ventilation openings clear of dust and debris to prevent overheating.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Charger not turning on	No AC power; Faulty outlet; Damaged power cord.	Check AC power connection; Try a different outlet; Inspect power cord for damage.
No charging activity	Incorrect battery connection; Battery voltage too low; Severely damaged battery.	Ensure correct polarity (+ to +, - to -); Charger requires minimum >2V to start; Charger cannot repair completely dead or severely damaged batteries.
Error message on display	Reverse polarity; Short circuit; Overheating.	Disconnect and reconnect clamps correctly; Check for short circuits; Allow charger to cool down in a well-ventilated area.
Pulse Repair Mode not working	Battery is beyond repair; Incorrect mode selection.	Note that this mode cannot activate a completely dead battery or fully restore a severely damaged one. Ensure 'Recovery' mode is selected.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the point of purchase or contact your seller directly. Keep your purchase receipt as proof of purchase.

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