

## Yato YT-83002

# YATO 12V Car Battery Charger YT-83002 User Manual

Model: YT-83002

## 1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your YATO 12V Car Battery Charger, model YT-83002. Please read this manual thoroughly before using the charger to ensure proper function and to prevent damage to the unit or injury to yourself.

## 2. SAFETY INSTRUCTIONS

**Always observe the following safety precautions to reduce the risk of electric shock, fire, or injury:**

- Read all instructions before using the charger.
- Use the charger in a well-ventilated area. Batteries can produce explosive gases.
- Wear eye protection and protective clothing when working with batteries.
- Never charge a frozen battery.
- Ensure the charger is disconnected from the power supply before making or breaking connections to the battery.
- Keep the charger away from moisture, rain, and snow.
- Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged.
- Do not attempt to disassemble the charger. Contact qualified service personnel for repairs.
- This charger is designed for charging 6V and 12V lead-acid, GEL, AGM, and EFB batteries only. Do not use it for charging dry-cell batteries that may burst and cause injury to persons and damage to property.

## 3. PRODUCT OVERVIEW

The YATO YT-83002 is a microprocessor-controlled battery charger designed for various 6V and 12V vehicle batteries. It features automatic charging, short-circuit protection, and supports multiple battery types.



**Image 1:** Front view of the YATO YT-83002 battery charger, showing the main unit with its digital display and "Mode" button, along with the attached red positive and black negative battery clamps. The display indicates "0.0V" and the unit specifies "DC 6V / 12V, DC 2 / 10 A, 200 Ah" and supported battery types (WET/MOKRY/GEL/AGM/EFB).

### Key Features:

- **Microprocessor Control:** Ensures efficient and safe charging.
- **Multi-Voltage Support:** Charges both 6V and 12V batteries.
- **Variable Charge Current:** Up to 10 Amperes.
- **Wide Battery Compatibility:** Suitable for WET (liquid electrolyte), GEL, AGM, and EFB lead-acid batteries.
- **Short-Circuit Protection:** Enhances safety during operation.
- **Maximum Battery Capacity:** Supports batteries up to 200 Ah.



**Image 2:** Side view of the YATO YT-83002 battery charger, highlighting its robust casing and cooling fins. The image shows the compact design of the unit.

## 4. SETUP

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1. **Preparation:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush and a baking soda solution.
2. **Ventilation:** Place the charger and battery in a well-ventilated area, away from flammable materials.
3. **Connecting to Battery:**
  - Connect the **RED** positive (+) clamp to the positive (+) terminal of the battery.
  - Connect the **BLACK** negative (-) clamp to the negative (-) terminal of the battery. If charging a battery installed in a vehicle, connect the negative clamp to the vehicle chassis away from the battery and fuel line.



**Image 3:** Close-up view of the red positive and black negative battery clamps, illustrating their design for secure connection to battery terminals.

4. **Connecting to Power:** Plug the charger's power cord into a standard electrical outlet (230V AC, 50Hz). The charger will power on.

## 5. OPERATING INSTRUCTIONS

1. **Power On:** Once connected to the battery and power outlet, the charger will automatically detect the battery voltage (6V or 12V) and display it.
2. **Select Mode:** Press the "Mode" button on the charger to cycle through available charging programs. The display will indicate the selected mode (e.g., for WET, GEL, AGM, EFB batteries). Choose the mode appropriate for your battery type.
3. **Charging Process:** The charger will begin the charging process automatically. The display will show the charging voltage or current, or a charging progress indicator. The microprocessor will manage the charging stages to optimize battery life and performance.
4. **Charge Completion:** The charger will automatically switch to a maintenance (float) charge mode once the battery is fully charged. The display may indicate "FULL" or a similar status.
5. **Disconnecting:**
  - First, unplug the charger from the electrical outlet.
  - Then, disconnect the **BLACK** negative (-) clamp from the battery or vehicle chassis.
  - Finally, disconnect the **RED** positive (+) clamp from the battery terminal.

## 6. MAINTENANCE

- **Cleaning:** Disconnect the charger from all power sources and batteries before cleaning. Wipe the exterior with a soft, damp cloth. Do not use solvents or abrasive cleaners.
- **Inspection:** Regularly inspect the charging cables, clamps, and the charger casing for any signs of damage, wear, or corrosion. Replace damaged components immediately.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep it out of reach of children.

## 7. TROUBLESHOOTING

| Problem  | Possible Cause  | Solution  |
|--|---|---|
| Charger does not power on.                     | No power from outlet; faulty power cord.  | Check power outlet with another device. Inspect power cord for damage.  |
| Charger connected but not charging.            | Incorrect battery connection; battery too deeply discharged; incorrect mode selected. | Ensure clamps are securely connected to correct terminals. Check battery voltage. Select appropriate charging mode. |
| Charger displays an error code.                | Short circuit; reverse polarity; internal fault.                                      | Disconnect immediately. Check for short circuits or reverse polarity. If problem persists, contact support.         |
| Battery not fully charged after extended time. | Battery capacity too large for charger; battery is faulty.                            | Verify battery capacity is within charger's limits (up to 200Ah). Have battery tested by a professional.            |

## 8. SPECIFICATIONS

| Feature | Value |
|---------|-------|
|---------|-------|





Oryginalna instrukcja obsługi dla akumulatorowej szlifierki kątovej YATO YT-828293, YT-828294, YT-828295. Zawiera szczegółowe informacje dotyczące bezpieczeństwa, użytkowania, konserwacji oraz dane techniczne.



Instrukcja obsługi dla pilarki łańcuchowej YATO YT-828135 i YT-828136. Zawiera informacje o charakterystyce produktu, danych technicznych, instrukcjach bezpieczeństwa, obsłudze i konserwacji.

User manual for the YATO YT-73081 Digital Universal Multimeter. Learn about its features, technical specifications, safety instructions, and measurement procedures for accurate electrical testing.



Comprehensive user manual for the YATO Cordless Chainsaw models YT-828137 and YT-828138. This guide provides detailed instructions on operation, safety precautions, maintenance, and technical specifications for effective and safe use of the chainsaw.