

## HECHOBO 2A Smart Car Battery Charger

# HECHOBO 2A Smart Car Battery Charger and Maintainer User Manual

Model: 2A Smart Car Battery Charger

## 1. INTRODUCTION

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Thank you for choosing the HECHOBO 2A Smart Car Battery Charger and Maintainer. This device is designed to charge and maintain 6V and 12V lead-acid batteries, including flooded, AGM, and gel types. It functions as a battery charger, maintainer, trickle charger, float charger, and desulfator, ensuring your batteries remain in optimal condition. Please read this manual thoroughly before use to ensure safe and effective operation.

## 2. SAFETY INFORMATION

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Your safety is paramount. This charger incorporates multiple safety features to protect both the device and your battery:

- **Reverse Polarity Protection:** Prevents damage if battery clamps are connected incorrectly.
- **Over-Current Protection:** Safeguards against excessive current flow.
- **Overload Protection:** Protects the charger from being overloaded.
- **Over-Voltage Protection:** Prevents damage from voltage spikes.
- **Short-Circuit Protection:** Automatically shuts off in case of a short circuit.
- **Over-Temperature Protection:** Monitors internal temperature to prevent overheating.
- The device features an ABS flame-retardant shell for fire and electric shock resistance.

**Important: This device is a battery maintainer/trickle charger, not a jump starter. Do not attempt to use it for jump-starting vehicles.**



Image: The HECHOBO charger is designed with comprehensive safety features, including protection against over-current, short-circuit, overload, over-voltage, over-charger, and over-temperature, making it suitable for use in various conditions, including extreme climates.

### 3. PRODUCT OVERVIEW

The HECHOBO 2A Smart Car Battery Charger and Maintainer is a compact and efficient device for extending the life of your vehicle batteries. It features intelligent charging technology that automatically monitors and maintains your battery's health.

#### Key Features:

- Compatible with all 6V and 12V valve-controlled maintenance-free lead-acid batteries (SLA), including motorcycle, car, ATV, lawn mower, and marine batteries.
- Multi-stage charging process for optimal battery health.
- Integrated desulfation mode to restore lost battery performance.
- LED indicators for power, charging status, and full/standby.

- Extra-long 10ft charging cable for convenience.



Image: The HECHOBO 2A Smart Car Battery Charger and Maintainer, showing its compact design, alligator clips for battery connection, and the standard power plug. LED indicators on the unit display its operational status.

# SUITABLE FOR MOST VEHICLES

Charge & maintain batteries of all types of vehicles.  
Precisely connect your car battery with alligator connectors.



## ■ Will Charge



## ■ Maintenance Only



Image: This diagram illustrates the broad compatibility of the HECHOBO charger, suitable for maintaining batteries in a wide range of vehicles including motorcycles, ATVs, lawn mowers, boats, and cars.

## 4. SETUP INSTRUCTIONS

Follow these steps to correctly connect your HECHOBO battery charger to a battery:

1. **Ensure Safety:** Before connecting, ensure the charger is unplugged from the AC power outlet.
2. **Identify Battery Terminals:** Locate the positive (+) and negative (-) terminals on your battery. The positive terminal is usually marked with a plus sign and is larger, while the negative terminal is marked with a minus sign.
3. **Connect Red Clamp:** Connect the red (+) alligator clamp from the charger to the positive (+) terminal of the battery.
4. **Connect Black Clamp:** Connect the black (-) alligator clamp from the charger to the negative (-) terminal of the battery.
5. **Plug In Charger:** Once the clamps are securely attached to the battery terminals, plug the charger's AC power cord into a standard wall outlet.

**Warning: Always connect the clamps to the battery before plugging the charger into the power outlet. Disconnect in reverse order: unplug from outlet first, then remove clamps.**



Image: Step-by-step visual guide for connecting the charger to a battery. The red clamp attaches to the positive terminal, and the black clamp attaches to the negative terminal, ensuring correct polarity.

## 5. OPERATING INSTRUCTIONS

After connecting the charger as described in the Setup section, the device will automatically begin its charging process. The LED indicators provide real-time status updates:

- **Power LED (Red):** Illuminates when the charger is plugged into an AC outlet and receiving power.
- **Charging LED (Orange):** Illuminates when the battery is actively being charged. This light will remain on during the charging cycle.
- **Full/Standby LED (Green):** Illuminates when the battery is fully charged or in maintenance mode. The charger will automatically switch to float/maintenance mode to prevent overcharging and keep the battery at optimal voltage.

You can monitor the battery's charging status by observing these LED indicators. Once the Green LED is lit, the battery is ready for use, or the charger can remain connected for long-term maintenance.

## 6. MAINTENANCE

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The HECHOBO charger is designed to maintain your battery, but proper care of both the charger and the battery is essential for longevity.

### Charger Maintenance:

- Keep the charger clean and dry. Store it in a cool, dry place when not in use.
- Inspect cables and clamps regularly for any signs of damage or corrosion. Replace if necessary.
- Do not expose the charger to extreme temperatures or direct sunlight for prolonged periods.

### Battery Maintenance:

- Regularly check battery terminals for corrosion and clean them if needed.
- For non-sealed batteries, ensure electrolyte levels are adequate.
- Use the HECHOBO charger to keep infrequently used batteries (e.g., in lawn mowers, motorcycles, ATVs) fully charged during periods of inactivity to prevent sulfation and extend battery life.

# Solve the following problems

If the lawn mower is parked for too long, forgotten to be charged, the battery is aging, or there is heavy rain, it is easy for the lawn mower to fail to start.



Image: This illustration highlights common scenarios where battery maintenance is crucial, such as prolonged parking, neglected charging, battery aging, or exposure to adverse weather, which can lead to starting issues in vehicles like lawn mowers.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger not turning on (Power LED off)	No AC power; faulty outlet; damaged power cord.	Check wall outlet with another device. Inspect power cord for damage. Ensure charger is securely plugged in.
Charging LED not illuminating	Incorrect battery connection; battery too deeply discharged; battery fault.	Verify correct polarity (+ to +, - to -). Ensure clamps have good contact. If battery is extremely low, it may not register immediately. Test battery with a multimeter.

Problem	Possible Cause	Solution
Full/Standby LED not illuminating after extended charging	Battery capacity is very large; battery is faulty and cannot hold a charge.	Allow more time for charging, especially for larger batteries. If it never reaches full, the battery may need replacement.
Charger feels warm during operation	Normal operation; poor ventilation.	It is normal for the charger to feel warm during charging. Ensure it is in a well-ventilated area and not covered. If it becomes excessively hot to the touch, disconnect immediately and contact support.
Battery not holding charge after using desulfation mode	Battery is beyond recovery; desulfation process requires specific conditions.	While the charger has desulfation capabilities, severely damaged or aged batteries may not be fully recoverable. Desulfation is most effective on batteries with mild sulfation. Consider professional battery testing or replacement.

## 8. SPECIFICATIONS

Feature	Specification
Brand	HECHOBO
Model	2A Smart Car Battery Charger
Input Voltage	240 Volts (AC)
Output Voltage	6V / 12V (DC)
Output Current	2000mA (2A)
Compatible Battery Types	12V Sealed Lead Acid (SLA), Flooded, AGM, Gel
Product Dimensions	2 x 3.15 x 1.34 inches (approx. 5.08 x 8.00 x 3.40 cm)
Item Weight	11.3 ounces (approx. 320 grams)
Cable Length	10 feet (approx. 305 cm)
Operating Temperature	-4°F to 104°F (-20°C to 40°C)



Image: Detailed dimensions of the HECHOBO charger unit, its alligator clips, and the length of the power and battery connection cables.

## 9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact HECHOBO customer service directly through the retailer where the product was purchased. Please have your purchase details and product model number ready when contacting support.