

## Haisito 10A-Haisito-EU

# Haisito 10A Smart Car Battery Charger User Manual

Model: 10A-Haisito-EU

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation of your Haisito 10A Smart Car Battery Charger. This intelligent charger is designed for 12V and 24V batteries, including Lithium, LiFePO4, and various lead-acid types (AGM, GEL, EFB, SLA, Flooded, WET). It features advanced charging modes, temperature compensation, and multiple safety protections to ensure optimal battery health and longevity. Please read this manual thoroughly before using the charger and retain it for future reference.

## 2. SAFETY INSTRUCTIONS

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

- Always connect the charger to the battery terminals correctly: positive to positive, negative to negative.
- Ensure the charger is disconnected from the AC power outlet before making or breaking connections to the battery.
- Use the charger in a well-ventilated area. Do not operate in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Avoid charging frozen batteries. Allow them to warm up to room temperature first.
- Do not expose the charger to rain or excessive moisture.
- Keep children and unauthorized persons away from the charging area.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.
- The charger is equipped with multiple protections including temperature, undervoltage, overvoltage, short-circuit, overcurrent, and anti-spark protection. However, always exercise caution.

## 3. PRODUCT OVERVIEW

The Haisito 10A Smart Car Battery Charger features a compact design with an intuitive LCD display and robust alligator clips for secure battery connection.



Image 3.1: The Haisito 10A Smart Car Battery Charger, showing its main unit, power plug, and red and black alligator clips.

### 3.1. Components

- **Main Charger Unit:** Houses the intelligent charging circuitry and LCD display.
- **LCD Display:** Shows real-time charging status, voltage, current, temperature, and warning messages.
- **Mode Button:** Used to select different charging modes.
- **Positive (+) Alligator Clip (Red):** Connects to the positive battery terminal.
- **Negative (-) Alligator Clip (Black):** Connects to the negative battery terminal.
- **AC Power Cord:** Connects the charger to a standard wall outlet.



Image 3.2: Detailed view of the charger's LCD display, illustrating the various indicators and mode selections available.

## 4. SETUP AND CONNECTION

Follow these steps to safely connect your Haisito battery charger to a battery:

- 1. Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush.
- 2. Connect the Red Clamp:** Attach the red positive (+) alligator clamp to the positive (+) terminal of the battery.
- 3. Connect the Black Clamp:** Attach the black negative (-) alligator clamp to the negative (-) terminal of the battery.
- 4. Connect to Power:** Plug the AC power cord into a standard wall outlet. The charger will power on and automatically detect the battery voltage (12V or 24V).
- 5. Select Charging Mode:** Use the 'Mode' button to cycle through the available charging modes (e.g., Motorcycle, STD, AGM/GEL/LI, Repair) to match your battery type and charging needs. The charger will automatically adjust for winter/summer temperatures.



Image 4.1: The charger connected to a lead-acid battery, demonstrating proper setup for charging.

## 5. OPERATING INSTRUCTIONS

The Haisito 10A Smart Car Battery Charger offers intelligent, multi-stage charging for various battery types. The LCD display provides real-time feedback on the charging process.

### 5.1. Charging Modes

The charger supports 10 charging modes and is compatible with a wide range of 12V and 24V batteries. Press the 'Mode' button to select the appropriate setting:

- **Motorcycle Mode (1A-3A):** For smaller 12V motorcycle batteries.
- **STD Mode (1A-10A):** Standard charging for 12V lead-acid batteries (e.g., Flooded, WET).
- **AGM/GEL/LI Mode (1A-10A):** For 12V AGM, GEL, EFB, SLA, and Lithium/LiFePO4 batteries.
- **24V Modes:** The charger automatically adjusts current for 24V batteries (up to 5A).
- **Repair Mode:** For reconditioning old or idle batteries (see Section 6.1).

## GEEIGNET FÜR 12/24-VOLT-BATTERIEN



Image 5.1: Examples of the LCD display showing different charging statuses and information.

### 5.2. Automatic Features

- **Temperature Compensation:** The charger automatically detects ambient temperature and adjusts charging parameters for optimal performance in both winter (below 10°C/50°F) and summer (above 28°C/86°F) conditions.
- **Memory Function:** After a power outage, the charger will automatically resume the last selected charging mode, making it ideal for long-term maintenance charging.

# BATTERY COMPATIBILITY

Lithium, LiFePO4, Lead-acid [AGM, GEL, SLA, Flooded, WET, EFB, etc..]

Automatic recognition of 12V/24V

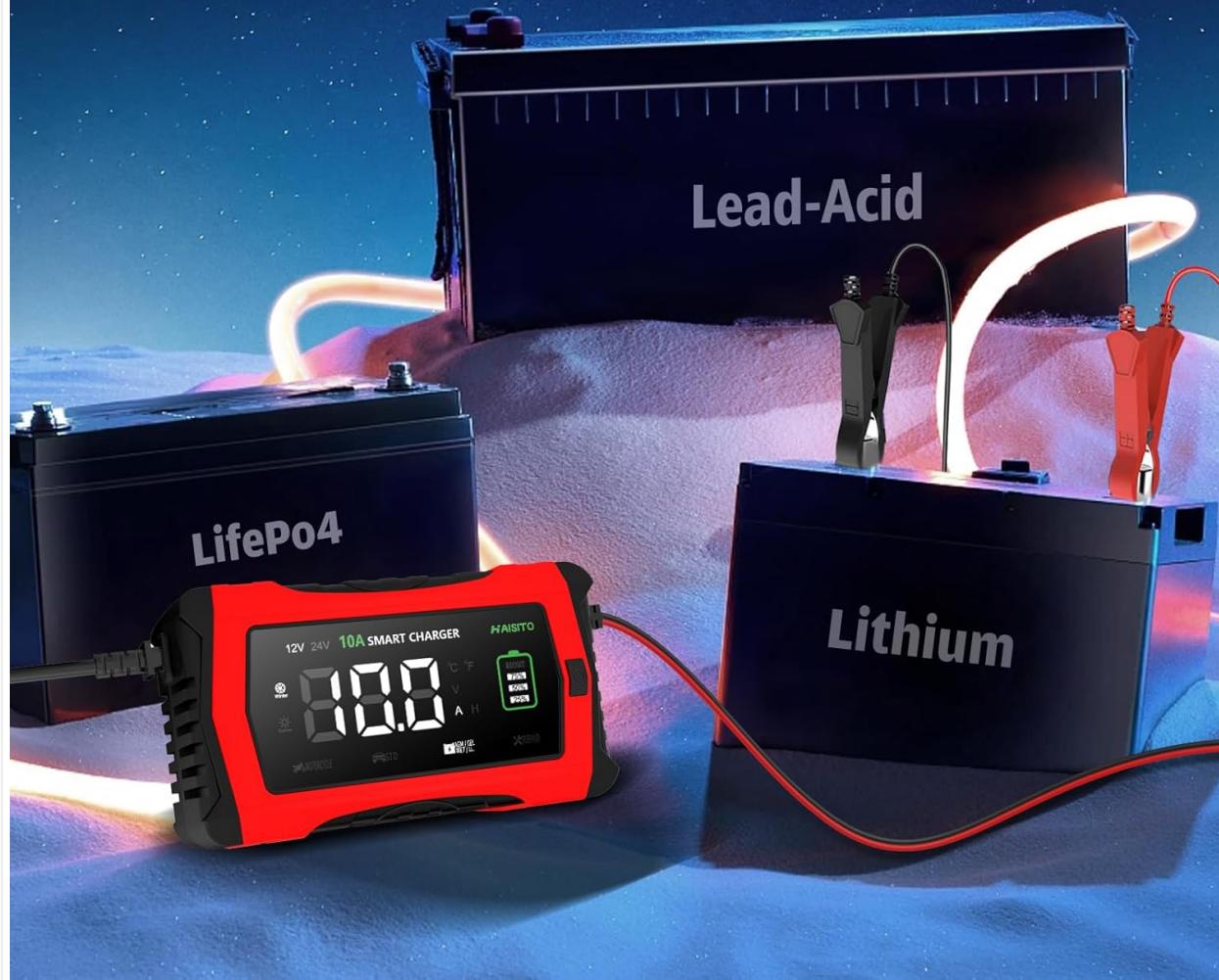


Image 5.2: Visual representation of the charger's 10-step intelligent charging cycle.

## 5.3. Disconnecting the Charger

Once charging is complete (display shows "FUL" or 100%):

1. Unplug the AC power cord from the wall outlet.
2. Remove the black negative (-) alligator clamp from the battery's negative (-) terminal.
3. Remove the red positive (+) alligator clamp from the battery's positive (+) terminal.

## 6. MAINTENANCE

### 6.1. Pulse Repair Function

The pulse repair function can help restore old, sulfated, or idle batteries that are not severely damaged. To use this function, select 'Repair Mode' on the charger. The process involves intelligent pulse charging to desulfate and reactivate the battery, potentially extending its lifespan.



Image 6.1: The charger utilizing its smart pulse repair function to recondition a battery.

## 6.2. General Care

- Clean the charger casing with a soft, dry cloth. Do not use harsh chemicals or abrasives.
- Inspect the power cord and alligator clips for any damage before each use.
- Store the charger in a cool, dry place when not in use.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger does not turn on or detect battery.	Battery voltage too low (below 8V for 12V battery, or 16V for 24V battery); incorrect connection; faulty power outlet.	Ensure correct polarity. Check power outlet. If battery is extremely discharged, it may need a slight initial charge from another source to reach a detectable voltage.
Charging current is lower than expected (e.g., not 10A).	The charger intelligently adjusts current based on battery state, temperature, and selected mode. It's not always a constant 10A.	This is normal operation. The charger optimizes current for safe and efficient charging.
Charger fan is noisy.	Internal cooling fan is active.	This is normal. The fan activates to prevent overheating, especially during high-current charging or in warm environments.
Error message on display.	Indicates a specific issue (e.g., reverse polarity, short circuit, over-temperature).	Refer to the display for the specific error code and consult the charger's internal logic for resolution. Disconnect and re-connect the charger carefully.

## 8. SPECIFICATIONS

The following table outlines the technical specifications for the Haisito 10A Smart Car Battery Charger (Model 10A-Haisito-EU).

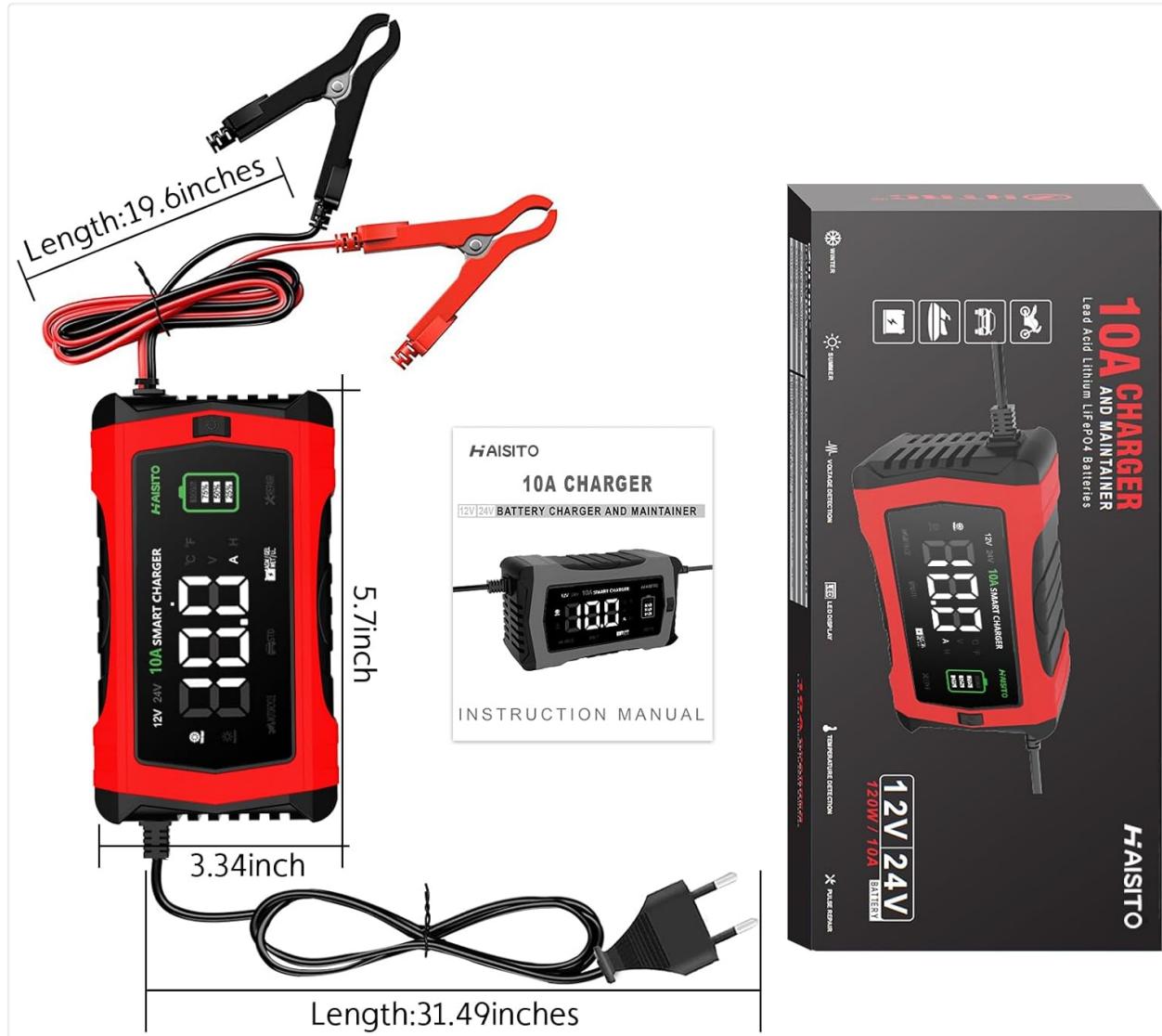


Image 8.1: Product dimensions and packaging details.

Feature	Specification
Brand	Haisito
Model Number	10A-Haisito-EU
Input Voltage	24 Volts (AC input not specified, typically 100-240V AC)
Output Voltage	12V / 24V DC (Automatic Detection)
Max Charging Current (12V)	10 A
Max Charging Current (24V)	5 A
Recommended Battery Capacity	6 Ah to 120 Ah
Compatible Battery Types	Lithium, LiFePO4, Lead-acid (AGM, GEL, EFB, SLA, Flooded, WET)

Feature	Specification
Dimensions (Product)	22P x 10I x 8H centimeters (approx. 8.66 x 3.94 x 3.15 inches)
Color	Red
Number of Ports	1



Image 8.2: Examples of applications for the Haisito 10A Smart Car Battery Charger.

## 9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or contact the seller directly. Keep your proof of purchase for any warranty claims.

