

Haisito P25-EU-Haisito

Haisito 25A 12V/24V Smart Car Battery Charger User Manual

Model: P25-EU-Haisito

1. PRODUCT OVERVIEW

The Haisito 25A Smart Car Battery Charger (Model P25-EU-Haisito) is a versatile and intelligent device designed for charging and maintaining various types of 12V and 24V batteries. It features advanced charging technology, multiple protection mechanisms, and an intuitive interface for ease of use.

Key Features:

- **Wide Compatibility:** Suitable for 12V/24V Lithium (LiFePO₄), and Lead-Acid batteries (AGM, Calcium, GEL, MF, EFB, SLA, VRLA, WET, etc.).
- **Intelligent 9-Segment Automatic Charging:** Optimizes battery power precisely and gently through stages like battery detection, desulphurisation, soft start, bulk charging, absorption, trickle charging, battery test, recondition, float, and small current maintenance.
- **Repair Mode:** Designed to repair and activate old or low lead-acid batteries. *Note: A fully discharged battery cannot be activated or charged.*
- **Smart Detection:** Automatically detects battery voltage (12V/24V) and features 4 modes with one-button switching and 3-stage power adjustment (peak current 25A).
- **LCD Display:** Provides real-time information including battery voltage, charging current, charging temperature, battery charge level, summer mode, and winter mode.
- **Comprehensive Safety Protection:** Includes spark protection, short circuit protection, reverse polarity protection, undervoltage protection, overvoltage protection, overcurrent protection, and overheating protection. The housing is made of fireproof material.

One-key selection mode

Three charge current options: LOW, MEDIUM, HIGH, and REPAIR



Image 1.1: The Haisito 25A Smart Car Battery Charger, showing its compact design and clear LCD interface.

2. SAFETY INFORMATION

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

- Always wear eye protection and protective clothing when working with batteries.
- Ensure the charging area is well-ventilated.
- Keep the charger away from flammable materials and liquids.
- Do not expose the charger to rain or excessive moisture.
- Never attempt to charge a frozen or damaged battery.
- Ensure the charger is disconnected from the power outlet before making or breaking connections to the battery.
- This charger is equipped with multiple safety features including spark protection, short circuit protection, reverse polarity protection, undervoltage protection, overvoltage protection, overcurrent protection, and overheating

protection. However, proper handling is still crucial.

- The charger's housing is made of fireproof material for added safety.

3. PACKAGE CONTENTS

Upon opening the package, verify that all items are present and undamaged:

- Haisito 25A Smart Car Battery Charger (Model P25-EU-Haisito)
- Reinforced Crocodile Clips with Protective Case
- 3-meter Flexible Power Cord (pure copper)
- Instruction Manual



Image 3.1: Contents of the Haisito 25A Smart Car Battery Charger package, including the charger unit, power cord, and battery clips.

4. SETUP AND CONNECTION

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush and baking soda solution.

2. Connect to Battery:

- Connect the **RED** positive (+) alligator clip to the positive (+) battery terminal.
- Connect the **BLACK** negative (-) alligator clip to the negative (-) battery terminal.
- Ensure connections are secure and tight.



Image 4.1: Proper connection of the charger's alligator clips to a vehicle battery terminals.

3. **Connect to Power:** Plug the charger's power cord into a standard AC power outlet (100-240V AC, 50/60Hz). The charger will power on and begin its intelligent detection process.

5. OPERATING INSTRUCTIONS

The Haisito 25A charger features intelligent automatic operation and user-selectable modes.

5.1 Automatic Battery Detection

Upon connection to both the battery and power, the charger will automatically detect the battery voltage (12V or 24V) and initiate the appropriate charging process. The LCD screen will display relevant information.

Intelligent identification of voltage and battery type

Automatic Identification Battery voltage 12V/24V, Support Battery type LITHIUM/LiFePO4/Lead-Acid(AGM, Calcium, GEL, MF, EFB, SLA, VRLA, WET etc.)



Image 5.1: The charger's intelligent identification feature, automatically detecting 12V/24V and various battery types like Lithium, LiFePO4, and Lead-Acid.

5.2 Mode Selection

Press the **MODE** button on the charger to cycle through the available charging modes:

- **LOW:** Lower current charging mode.
- **MEDIUM:** Medium current charging mode.
- **HIGH:** High current charging mode (peak 25A).
- **REPAIR:** Special mode for reconditioning old or low lead-acid batteries.

Repair Mode

For battery maintenance or activate the battery. Leave the battery unused for a long time, old or cannot be charged batteries. (Repair lead-acid batteries only)



Image 5.2: The charger displaying "PUL" for Pulse Repair Mode, indicating its function to recondition lead-acid batteries.

The selected mode will be displayed on the LCD screen. Choose the appropriate current based on your battery's capacity and charging requirements. The repair mode is specifically for lead-acid batteries that are old or have been unused for a long time.

5.3 9-Stage Smart Charging Process

The charger employs a sophisticated 9-stage charging process to ensure optimal battery health and longevity:

1. **Battery Desulfation:** Breaks down lead sulfate crystals that can form on discharged batteries.
2. **Soft Start Charging:** Gently introduces current to the battery.
3. **Bulk Charging:** Charges the battery at its maximum rate to approximately 80% capacity.
4. **Absorption Charging:** Charges at a decreasing rate to bring the battery to 100% capacity.
5. **Trickle Charging:** Maintains the battery at full charge.
6. **Battery Test:** Checks the battery's ability to hold a charge.
7. **Recondition:** Applies a higher voltage to equalize cells and improve battery performance (for lead-acid).

8. **Float & Maintenance Charging:** Keeps the battery at optimal voltage without overcharging.
9. **Small Current Maintenance:** Provides minimal current to keep the battery topped off during long-term storage.



Image 5.3: Visual representation of the 9-stage smart charging process, illustrating voltage and current changes throughout the charging cycle.

5.4 LCD Display Information

The LCD screen provides critical information during operation:

- **Battery Voltage (V):** Current voltage of the connected battery.
- **Charging Current (A):** Current flowing into the battery.
- **Charging Temperature:** Ambient temperature detected by the charger.
- **Battery Charge Level:** Visual indicator of battery capacity (e.g., 20%, 40%, 60%, 80%, 100%).
- **Mode Indicator:** Shows the currently selected charging mode (LOW, MEDIUM, HIGH, REPAIR).
- **Summer Mode / Winter Mode:** Automatic adjustment of charging parameters based on ambient temperature.



Image 5.4: The charger's LCD screen displaying various charging modes (LOW, MEDIUM, HIGH, REPAIR) and current settings.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Haisito 25A Smart Car Battery Charger and the batteries it charges.

- **Cleaning:** Disconnect the charger from power and battery before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep it away from direct sunlight, extreme temperatures, and moisture.
- **Cable Inspection:** Regularly inspect the power cord and alligator clips for any signs of damage, fraying, or corrosion. Replace if damaged.
- **Battery Maintenance:** For lead-acid batteries that have been deeply discharged or unused for extended periods, utilize the **REPAIR** mode to attempt reconditioning. Remember, this mode is not effective for fully discharged batteries or non-lead-acid types.

7. TROUBLESHOOTING

If you encounter issues with your Haisito 25A Smart Car Battery Charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger does not power on.	No power from outlet; faulty power cord; internal fault.	Check power outlet with another device. Inspect power cord for damage. If problem persists, contact support.
Charger displays an error or warning.	Reverse polarity connection; short circuit; overvoltage/undervoltage; overheating.	Disconnect from power and battery. Verify correct polarity (+ to +, - to -). Check for short circuits. Allow charger to cool if overheating. Reconnect carefully.
Battery is not charging or charging slowly.	Poor connection; incorrect mode selected; battery is severely discharged or damaged; battery type incompatibility.	Ensure alligator clips are securely connected. Select a higher current mode if appropriate. Note that fully discharged batteries cannot be activated. Verify battery type is compatible (Lithium, LiFePO4, Lead-Acid).
Repair mode does not activate or work.	Battery is not a lead-acid type; battery is completely dead; severe internal battery damage.	Repair mode is only for lead-acid batteries. It cannot revive a completely dead battery. Consider professional battery testing or replacement.

If troubleshooting steps do not resolve the issue, please contact Haisito customer support for further assistance.

8. SPECIFICATIONS

Feature	Detail
Brand	Haisito
Model Number	P25-EU-Haisito
Input Voltage	100-240V AC, 50/60Hz
Output Voltage	12V / 24V Auto-detection
Max Charging Current	25 Amps (12V), 13 Amps (24V)
Battery Types	Lithium, LiFePO4, Lead-Acid (AGM, Calcium, GEL, MF, EFB, SLA, VRLA, WET)
Charging Stages	9-stage automatic charging
Protection Features	Spark-proof, Short Circuit, Reverse Polarity, Undervoltage, Overvoltage, Overcurrent, Overheating
Product Dimensions (D x W x H)	3.43" x 6.1" x 1.89"

Feature	Detail
Manufacturer	HTRC

Compatible with built-in batteries of various vehicles

For Lithium, LiFePo4, Lead-acid batteries (AGM, GEL, SLA, Flooded, WET, EFB, VRLA, etc).

Image 8.1: The Haisito 25A charger is compatible with a wide range of vehicles and battery types, including cars, motorcycles, boats, and lawn mowers.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This Haisito 25A Smart Car Battery Charger comes with a **1 Year Manufacturer Guarantee** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or neglect.

9.2 Customer Support

If you have any questions, require technical assistance, or need to make a warranty claim, please contact Haisito customer support. Refer to the contact information provided with your purchase or visit the official Haisito website for support details.

We are committed to providing you with the best service and support for your product.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question