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› Haisito P3648 Smart 36V/48V 18A/13A Battery Charger and Desulfator User Manual

Haisito P3648

Haisito P3648 Smart 36V/48V Battery Charger and Desulfator

User Manual

1. INTRODUCTION

Thank you for choosing the Haisito P3648 Smart Battery Charger. This device is designed to provide efficient and safe charging for a wide range of 36V and 48V batteries, including Lithium, LiFePO4, and various Lead-Acid types (AGM, GEL, MF, EFB, WET, VRLA, SLA). It features intelligent charging stages, a repair mode, and multiple safety protections to ensure optimal battery performance and longevity.

ALL-IN-ONE CHARGER

for 36V and 48V Lithium, LiFePO4, Lead-acid batteries.



The Haisito P3648 Smart Battery Charger is compatible with a wide range of 36V and 48V batteries, including Lithium, LiFePO4, and Lead-Acid types, suitable for various vehicles like golf carts.

Wide Application

The Haisito P3648 charger is suitable for a diverse range of vehicles and equipment. It can charge batteries for:

- Cars, Motorcycles, Boats, Motorboats
- Golf Carts (including EZGO TXT), RVs, Trucks
- Agricultural Vehicles, Lawn Mowers, Scooters
- SUVs, 4WD vehicles

WIDE APPLICATION



Car



SUV



Golf cart



Truck



Motorboat



Motorcycle



RV



4WD



Lawn mower

This image displays the wide range of applications for the Haisito P3648 battery charger, including various vehicles and machinery.

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.

- **Ventilation:** Ensure adequate ventilation during charging. Do not operate the charger in a confined area or obstruct its cooling vents.
- **Battery Type:** Only charge batteries that match the charger's specifications (36V or 48V Lithium, LiFePO4, Lead-Acid). Charging incompatible batteries may cause damage or explosion.
- **Connections:** Connect the charger to the battery terminals correctly (positive to positive, negative to negative). Reverse polarity can cause sparks and damage.
- **Sparks:** Avoid creating sparks near the battery, especially when connecting or disconnecting. Batteries can produce explosive gases.
- **Water Exposure:** Do not expose the charger to rain, moisture, or operate it in wet conditions.

- **Damage:** Do not operate the charger if it has been dropped, damaged, or if the power cord or cables are frayed.
- **Children:** Keep the charger and batteries out of reach of children.
- **Personal Protective Equipment:** Wear eye protection and gloves when working with batteries.

Multiple Protections

The Haisito P3648 charger incorporates several safety features:

- **Overcharge Protection:** Prevents battery damage from excessive charging.
- **Short Circuit Protection:** Automatically shuts off in case of a short circuit.
- **Overcurrent Protection:** Safeguards against excessive current flow.
- **Low Voltage Protection:** Protects the charger and battery from operating at dangerously low voltages.
- **Reverse Connection Protection:** Prevents damage if battery terminals are connected incorrectly.
- **Overheating Protection:** The built-in dual cooling fan and temperature compensation prevent the charger from overheating.



The charger features multiple protection mechanisms and a flame-retardant enclosure for enhanced safety.



A built-in dual cooling fan helps maintain optimal operating temperature.

3. PRODUCT OVERVIEW AND CONTENTS

The Haisito P3648 is a smart battery charger and maintainer with an intuitive LCD display and robust construction.



Overview of the Haisito P3648 Smart Battery Charger's key features.

What You Get

Upon unpacking, ensure all the following items are present:

- Haisito P3648 Smart Charger Unit
- User Manual (this document)
- Power Cable (2.0m length)
- Alligator Clips (1.0m length)
- Cable Lugs (0.8cm diameter)

WHAT YOU GET

P3648 Smart Charger



manual



power cable
(length: 200cm)



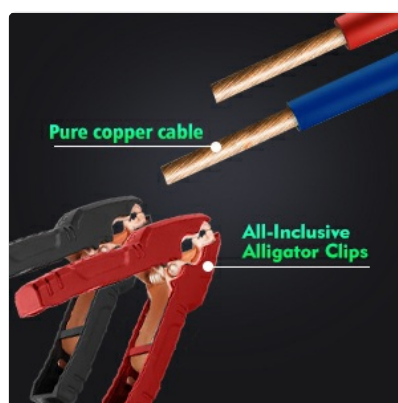
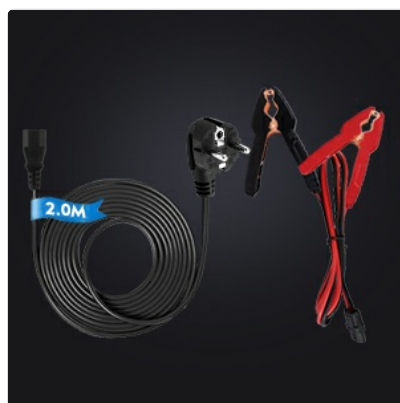
cable lugs
(diameter: 0.8cm)



alligator clips
(length: 100cm)



Contents of the Haisito P3648 Smart Charger package, including the charger unit and accessories.



The charger comes with a durable power cable and high-quality alligator clips for secure connections.

4. SETUP

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 the Charger to the Battery:**
 - Connect the **RED (+)** alligator clip to the **POSITIVE (+)** battery terminal.
 - Connect the **BLACK (-)** alligator clip to the **NEGATIVE (-)** battery terminal.
 - Ensure a secure connection.
3. **Connect to Power:** Plug the charger's power cable into a standard electrical outlet. The charger will power on and display information on the LCD screen.



Proper connection of the Haisito P3648 charger to a vehicle battery.

5. OPERATING INSTRUCTIONS

Selecting Voltage and Current Modes

The charger automatically detects the battery voltage (36V or 48V). You can manually select the charging current and mode using the 'MODE' button.

- For 36V batteries, selectable current levels are 5A, 10A, and 18A.
- For 48V batteries, selectable current levels are 5A, 8A, and 13A.
- A dedicated 'REPAIR' mode is also available.

Once the voltage and mode are selected, the charger will automatically proceed with the charging process.

4 MODES SELECTABLE

3 current levels are optional, one key to select the mode, automatically complete the charging process.



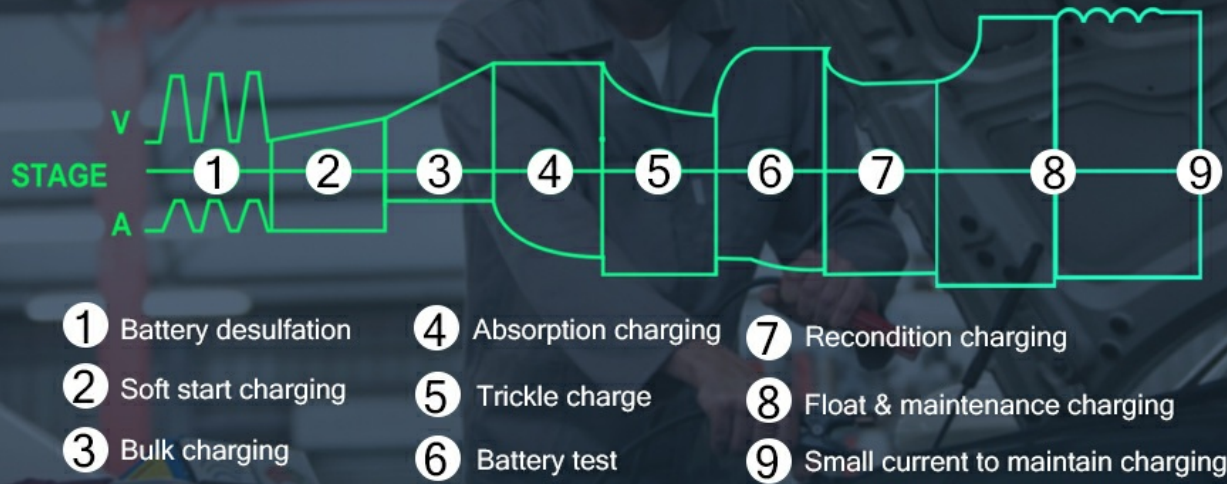
The charger offers multiple current levels and a repair mode, easily selectable via the 'MODE' button.

9-Stage Smart Charging Process

The charger utilizes a 9-stage intelligent charging process to optimize battery health and charge efficiency:

1. **Battery Desulfation:** Breaks down lead sulfate crystals that can form on battery plates.
2. **Soft Start Charging:** Gradually introduces current to prevent damage to deeply discharged batteries.
3. **Bulk Charging:** Charges the battery to approximately 80% capacity at the maximum selected current.
4. **Absorption Charging:** Charges the battery to 100% capacity at a decreasing current.
5. **Trickle Charge:** Maintains the battery at full charge.
6. **Battery Test:** Checks battery condition.
7. **Recondition Charging:** Further optimizes battery performance.
8. **Float & Maintenance Charging:** Keeps the battery at optimal voltage for long-term storage.
9. **Small Current to Maintain Charging:** Ensures the battery remains fully charged without overcharging.

9-STAGE SMART CHARGING PROCESS



Detailed diagram of the 9-stage smart charging process for comprehensive battery care.

Repair Mode

The repair mode is designed to detect and address battery sulfation and acid stratification. It uses pulse repair technology to rejuvenate old and over-discharged batteries, potentially extending their lifespan. Note that severely damaged batteries may not be repairable. The minimum starting voltage for repair mode is 26V.

INTELLIGENT REPAIR

Use "Repair Mode" to activate and repair old and deeply discharged batteries.



Poor Starting Power



Long Idle Time



Old Battery

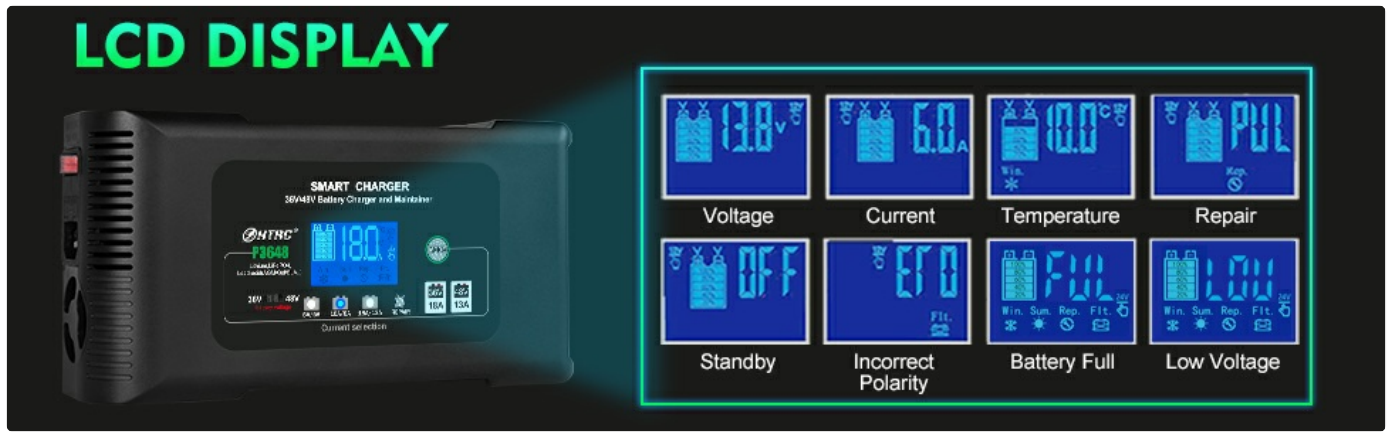
The intelligent repair mode helps restore batteries suffering from poor starting power, long idle times, or age-related issues.

LCD Display

The HD LCD screen provides real-time information about the charging process:

- Charge Percentage
- Voltage (V)
- Charging Current (A)
- Internal Temperature
- Charging Status Indicators (e.g., Standby, Incorrect Polarity, Battery Full, Low Voltage)

LCD DISPLAY



The LCD display provides comprehensive real-time charging information and status indicators.

Temperature Compensation

The charger automatically adjusts the charging voltage based on the ambient temperature. This feature prevents overcharging in hot weather and undercharging in cold weather, ensuring optimal battery health across different climates.

TEMPERATURE COMPENSATION

Suitable for most climates.

104°F

40°



Hot Weather

Avoids over-charging in hot weather.

14°F

-10°



Cold Weather

Avoids under-charging in cold weather.

Temperature compensation ensures safe and efficient charging in both hot and cold environments.

6. MAINTENANCE

- **Cleaning:** Disconnect the charger from power and battery before cleaning. Wipe the exterior with a soft, dry cloth. Do not use harsh chemicals or abrasives.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep cables neatly coiled.
- **Fuse Replacement:** The charger features a replaceable fuse. If the charger stops functioning, check the fuse located near the power input. Replace it with a fuse of the same type and rating (refer to specifications).



The charger includes a separate power switch and a replaceable fuse for easy maintenance.

7. TROUBLESHOOTING

If you encounter issues with your Haisito P3648 charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger does not turn on.	No power from outlet, faulty power cable, blown fuse.	Check power outlet, inspect power cable, replace fuse if blown.
Charger displays "Incorrect Polarity".	Battery clips connected incorrectly.	Disconnect from power, then reconnect RED (+) to POSITIVE (+) and BLACK (-) to NEGATIVE (-).
Battery not charging or charging slowly.	Incorrect mode/current selected, deeply discharged battery, severely damaged battery.	Ensure correct voltage/current mode. Try 'REPAIR' mode for deeply discharged batteries (min 26V). Severely damaged batteries may not accept a charge.
Charger overheats.	Poor ventilation, excessive ambient temperature.	Ensure charger is in a well-ventilated area. The built-in fan should manage normal operating temperatures.
Repair mode does not work.	Battery voltage too low (below 26V), battery is beyond repair.	Ensure battery voltage is at least 26V. Some batteries may be irreversibly damaged.

If the problem persists after attempting these solutions, please contact customer support.

8. SPECIFICATIONS

Feature	Specification
Model Number	P3648
Brand	Haisito
Input Voltage	36 Volts (for 36V batteries)
Output Voltage	48 Volts (for 48V batteries)
Max Charging Current (36V)	18 A
Max Charging Current (48V)	13 A
Selectable Current Levels (36V)	5A / 10A / 18A
Selectable Current Levels (48V)	5A / 8A / 13A
Number of Ports	1
Product Dimensions (L x W x H)	23 cm x 11.2 cm x 6.5 cm (9.05 x 4.4 x 2.55 inches)
Supported Battery Types	Lithium, LiFePO4, Lead-Acid (AGM, GEL, MF, EFB, WET, VRLA, SLA)
Safety Certifications	FCC

9. WARRANTY AND SUPPORT

Haisito products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official Haisito website. Please retain your proof of purchase for any warranty claims.

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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.

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Email

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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.

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