

Haisito HB6

Haisito 80W 6A Lipo Battery Balance Charger Discharger User Manual

Model: HB6

INTRODUCTION

The Haisito HB6 is a versatile 80W 6A balance charger and discharger designed for a wide range of RC hobby batteries. Equipped with a clear LCD screen and intuitive buttons, it offers various practical working modes and multiple protection features to ensure safe and efficient battery management.

This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your Haisito HB6 charger.



Figure 1: Haisito HB6 Balance Charger and its accessories, including the AC/DC adapter, AC cable, and various battery connector cables.

SETUP

Package Contents

Before beginning, verify that all components are present in the package:

- 1 x LiPo battery balance charger (Haisito HB6)
- 1 x Battery connector cable set
- 1 x AC/DC Adapter
- 1 x AC cable
- 1 x English Manual (this document)

Connecting the Charger

Follow these steps to connect your Haisito HB6 charger:

1. Connect the AC cable to the AC/DC adapter.

2. Plug the AC/DC adapter into a standard wall outlet.
3. Connect the DC output plug of the AC/DC adapter to the DC Input port (10-18V) on the back of the Haisito HB6 charger.
4. Identify the appropriate battery connector cable from the provided set for your battery type.
5. Connect the main charging leads of the battery to the Output Positive Electrode (red) and Output Negative Electrode (black) ports on the front of the charger.
6. For LiPo/Li-ion/LiFe batteries, connect the balance lead of the battery to the corresponding balance port (2S, 3S, 4S, 5S, or 6S) on the side of the charger.

Standard Interfaces

The charger has standard ports for necessary connecting lines, which make it very convenient.

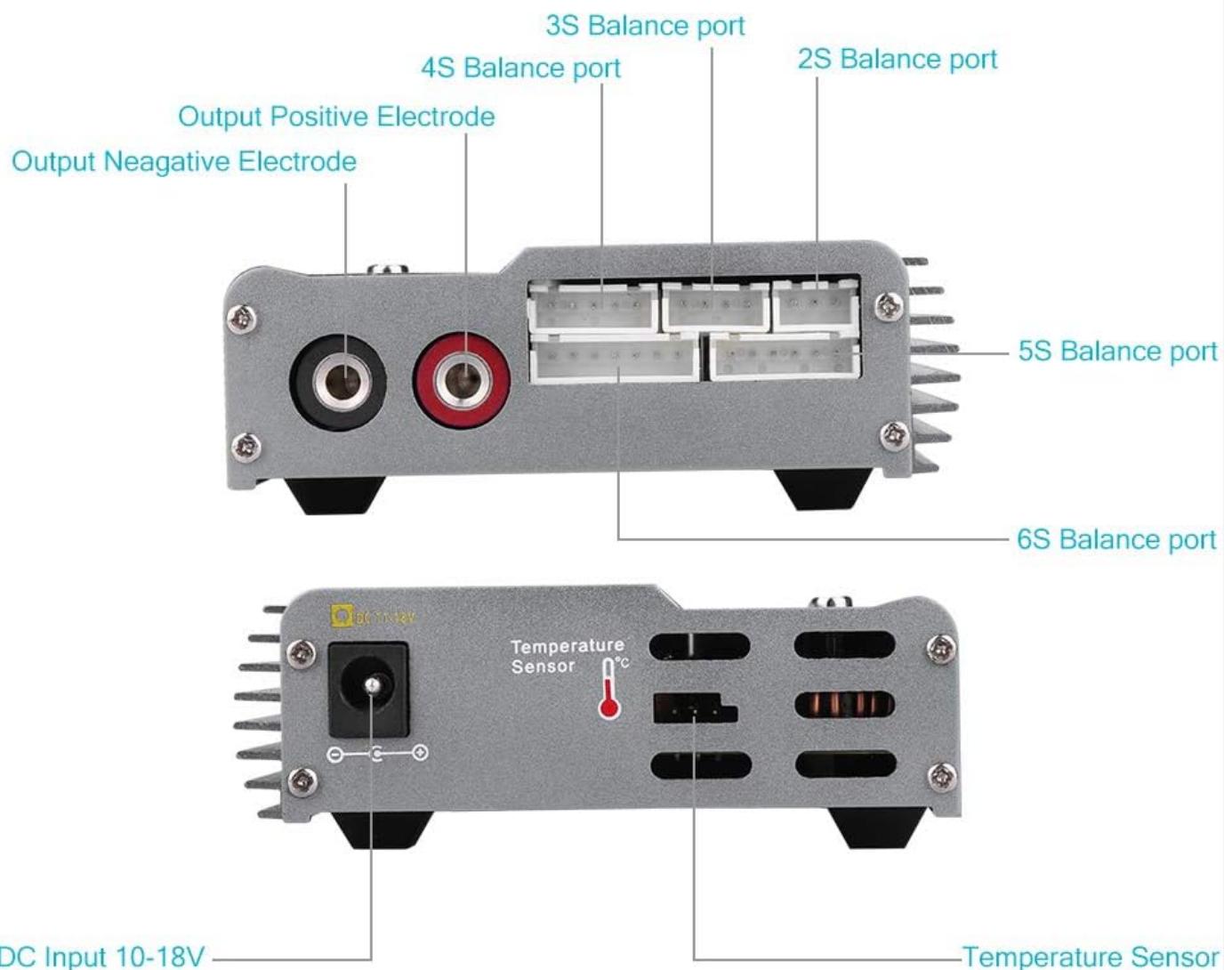


Figure 2: Standard Interfaces of the Haisito HB6 Charger. This diagram highlights the DC input, output positive and negative electrodes, and balance ports (2S to 6S) for proper connection.

OPERATING INSTRUCTIONS

Battery Type Compatibility

The Haisito HB6 charger is compatible with a wide range of battery types:

- **NiMH/NiCD batteries:** 1.2V-18V (1-15 Cells)
- **LiPo/Li-ion batteries:** 3.7V-22.2V (1-6 Cells)
- **LiFePO4 batteries:** 3.2V-19.2V (1-6 Cells)
- **SLA batteries:** 2V-20V

Wide Battery Type Compatability

One Charger for all of your battery packs, it is compatible with Li-ion, LiPo, LiFe, NiMH/NiCd, PB batteries.



Li-ion
(1S~6S)



LiPo
(1S~6S)



LiFe
(1S~6S)



NiMH/NiCd
(1S~15S)



PB
(2V~20V)

Figure 3: Wide Battery Type Compatibility. The charger supports Li-ion, LiPo, LiFe, NiMH/NiCd, and PB (SLA) battery chemistries, making it a versatile tool for various applications.

Basic Operation Steps

The charger features four easy-to-operate buttons: "Batt.Type", "Dec.", "Inc.", and "Start/Enter".

1. **Select Battery Type:** Press the **"Batt.Type"** button to navigate through user settings or select the desired battery type (e.g., LiPo, NiMH). Pressing it again will exit the program.
2. **Enter Parameter Setting:** Press the **"Start/Enter"** button twice to access the parameter setting menu for the selected battery type.
3. **Adjust Parameters:** Use the **"Dec."** (Decrease) or **"Inc."** (Increase) buttons to switch between parameters (e.g., charge current, voltage) and adjust their values.

4. **Start Charging:** Once parameters are set, press and hold the "Start/Enter" button for approximately 3 seconds to initiate the charging process.

Quite Easy To Use

The Buttons are simple and easy to understand, only need 4 steps to charge your battery.

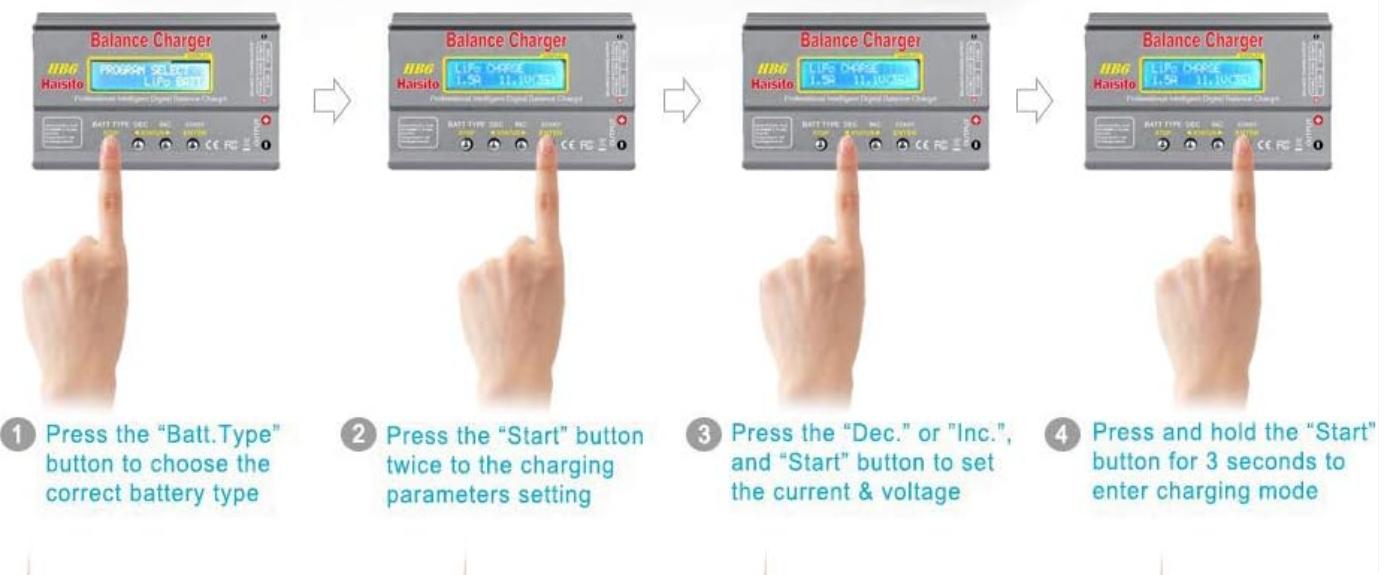


Figure 4: Easy-to-Use Operation. This visual guide demonstrates the four simple steps to charge your battery: select battery type, set parameters, adjust current/voltage, and start charging.

Multiple Practical Functions

The Haisito HB6 offers several advanced functions for comprehensive battery management:

- **Independent Lithium Battery Balancer:** Monitors and balances each cell of lithium batteries during charging, ensuring optimal performance and longevity.
- **Fast & Storage Charging Function:** Allows for quick charging or preparing batteries for long-term storage at a specific voltage.
- **Data Storage & Load Function:** Enables saving and recalling up to 5 battery profiles for convenient and consistent charging.

- **Cyclic Charging & Discharging Function:** Performs a series of charge/discharge cycles to refresh battery performance and determine capacity.

Multi-Working Modes

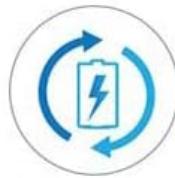
This is a Practical Multi-functional Charger which has Cyclic Charging & Discharging, Data Storage & Load, Fast & Storage Charging, Li-ion/Lipo Balancer modes.



Fast & Storage
Charging



Li-ion/Lipo
Balancer



Cyclic Charging
& Discharging



Data Storage
& Load

Figure 5: Multi-Working Modes. The charger supports various modes including fast charging, storage, balancing, cyclic operations, and data management for different battery needs.

MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your Haisito HB6 charger:

- **Cleaning:** Regularly wipe the charger's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight, moisture, and extreme temperatures when not in use.

- **Cable Inspection:** Periodically inspect all cables and connectors for any signs of wear, damage, or fraying. Replace damaged cables immediately.
- **Ventilation:** Ensure the charger's ventilation openings are clear and unobstructed during operation to prevent overheating.

TROUBLESHOOTING

Safety Features and Protections

The Haisito HB6 charger is equipped with multiple safety features to protect both the charger and your batteries:

- **Reverse Polarity Protection:** Prevents damage if battery leads are connected incorrectly.
- **Short Circuit Protection:** Automatically shuts down if a short circuit is detected.
- **Over-Charge Protection:** Prevents batteries from being overcharged, which can lead to damage or safety hazards.
- **Over-Current Protection:** Limits the current to prevent excessive current flow.
- **Over-Temperature Protection:** Shuts down the charger if internal temperatures exceed safe limits.

High Quality & Safe To Use

Using superior chip and materials, and the charger is designed with multiple protection.



Reverse Polarity Protection



Short Circuit Protection



Over-Charge Protection



Over-Current Protection



Over-temperature Protection

Figure 6: High Quality & Safe Design. The charger incorporates robust internal components and multiple protection mechanisms to ensure

safe and reliable operation.

Common Issues and Solutions

Problem	Possible Cause	Solution
Charger does not power on.	No power from outlet; AC/DC adapter or cable faulty; loose connection.	Check wall outlet with another device. Ensure all cables are securely connected. Inspect AC/DC adapter and cables for damage.
Battery not charging.	Incorrect battery type selected; incorrect parameters set; poor battery connection; battery is severely discharged or damaged.	Verify battery type and cell count settings. Ensure charging current and voltage are appropriate. Reconnect battery leads and balance plug. Consult battery manufacturer for severely discharged batteries.
Error message on display.	Indicates a specific issue (e.g., connection error, cell voltage imbalance, over-temperature).	Refer to the charger's display message for specific guidance. Check all connections. Allow charger to cool down if over-temperature is indicated.
Charger gets hot during operation.	Normal during high-power charging; poor ventilation; excessive ambient temperature.	Ensure adequate airflow around the charger. Avoid operating in enclosed spaces or direct sunlight. If excessively hot, stop charging and allow to cool.

SPECIFICATIONS

Parameter	Value
Operating Voltage Range	DC 11-18 Volts
Max. Charge Power	80W
Max. Discharge Power	5W
Charge Current Range	0.1-6.0A
Discharge Current Range	0.1-2A
Current Drain for Balancing Li-po	300mA/cell
Supported Battery Types	LiPo/Li-ion/LiFe (1-6S), NiMH/NiCd (1-15S), SLA (2-20V)
Dimensions (Package)	23.3 x 16.3 x 5.7 cm
Weight (Package)	770 g
Model Number	HB6
Manufacturer	Haisito

WARRANTY AND SUPPORT

Warranty Information

The Haisito HB6 balance charger includes a **12-month warranty** from the date of purchase. This warranty covers

manufacturing defects and issues arising from normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, unauthorized modifications, accidents, or failure to follow the instructions in this manual.

Customer Support

For technical assistance, warranty claims, or any questions regarding your Haisito HB6 charger, please contact Haisito customer support through the retailer where the product was purchased or refer to the contact information provided on the product packaging or official Haisito website.

© 2024 Haisito. All rights reserved.

Related Documents

	<p><u>Haisito HB6 Balance Charger Multilingual Instruction Manual</u></p> <p>Comprehensive instruction manual for the Haisito HB6 80W 6A Balance Charger, covering setup, operation, battery types, error messages, and support. Features multilingual instructions for various battery chemistries.</p>
	<p><u>Haisito C150/C240 Battery Charger User Manual</u></p> <p>User manual for the Haisito C150 and C240 battery chargers, detailing features, operation, and safety precautions for charging various battery types.</p>



[Haisito P20/20AMP/N20 Smart Battery Charger: User Manual, Features, and Specifications](#)

Detailed user manual for the Haisito P20/20AMP/N20 smart battery charger. Learn about its features, technical specifications, how to charge various battery types (Lithium, LiFePO4, Lead-acid), safety guidelines, and estimated charging times.