

HTRC C6X2

HTRC C6X2 Dual RC Battery Charger Instruction Manual

Model: C6X2

INTRODUCTION

Thank you for choosing the HTRC C6X2 Dual RC Battery Charger. This advanced charger is designed for versatility and efficiency, capable of simultaneously charging two different battery types across its dual channels. It supports a wide range of battery chemistries, including LiPo, LiHV, Li-ion, LiFe, NiCD, NiMH, and PB batteries, making it an ideal solution for RC enthusiasts. This manual provides essential information for safe and effective operation, setup, and maintenance of your charger.



Figure 1: HTRC C6X2 Dual RC Battery Charger with its various connection cables.

SAFETY INFORMATION

Always prioritize safety when operating the charger. Improper use can lead to fire, injury, or property damage.

- Never leave charging batteries unattended.
- Ensure the correct battery type and cell count are selected before charging.
- Do not charge two different batteries on the same channel simultaneously. Each channel is designed for one battery at a time.
- Avoid using the AC power cable and DC cable simultaneously.
- Charge batteries in a fire-safe area, away from flammable materials.
- Do not attempt to charge damaged or swollen batteries.
- Keep the charger away from water, moisture, and extreme temperatures.

- Ensure proper ventilation around the charger during operation.



Figure 2: Illustration of incorrect charging practices (e.g., connecting multiple batteries to a single channel) and the correct method for safe operation.

PACKAGE CONTENTS

Verify that all items are present in the package before use:

- One (1) HTRC C6X2 RC Battery Charger
- One (1) AC Power Cable
- One (1) DC Power Cable
- Two (2) 3-in-1 Convert Cables to XT60 Plugs
- One (1) XT60 to EC5 Cable
- Two (2) Balance Extension Cords
- One (1) Instruction Manual

WHAT'S IN THE PACKAGE?



Figure 3: All components included in the HTRC C6X2 product package.

PRODUCT FEATURES AND OVERVIEW

The HTRC C6X2 is a high-performance dual-channel charger designed for a wide array of RC battery types.

- **Dual Channel Charging:** Capable of charging two batteries independently and simultaneously.
- **Wide Battery Compatibility:** Supports 1-6S LiPo, LiHV, Li-ion, LiFe; 1-15S NiCD, NiMH; and 2-20V PB Smart Batteries.
- **Multiple Charging Modes:** Includes Charge, Balance Charge, Discharge, and Storage modes.
- **Large Screen Display:** Provides clear, easy-to-read information for monitoring and setting parameters.
- **Load Memory Function:** Stores up to 20 different battery profiles for quick recall and charging.
- **Automatic Cell Count Detection:** Features an "AUTO" function to automatically identify the cell count during charging or discharging.
- **Safety Features:** Automatic stop upon full charge, capacity cut-off, and safety timer.

WIDE BATTERY TYPE COMPATIBILITY

Have one charger for all of your battery packs

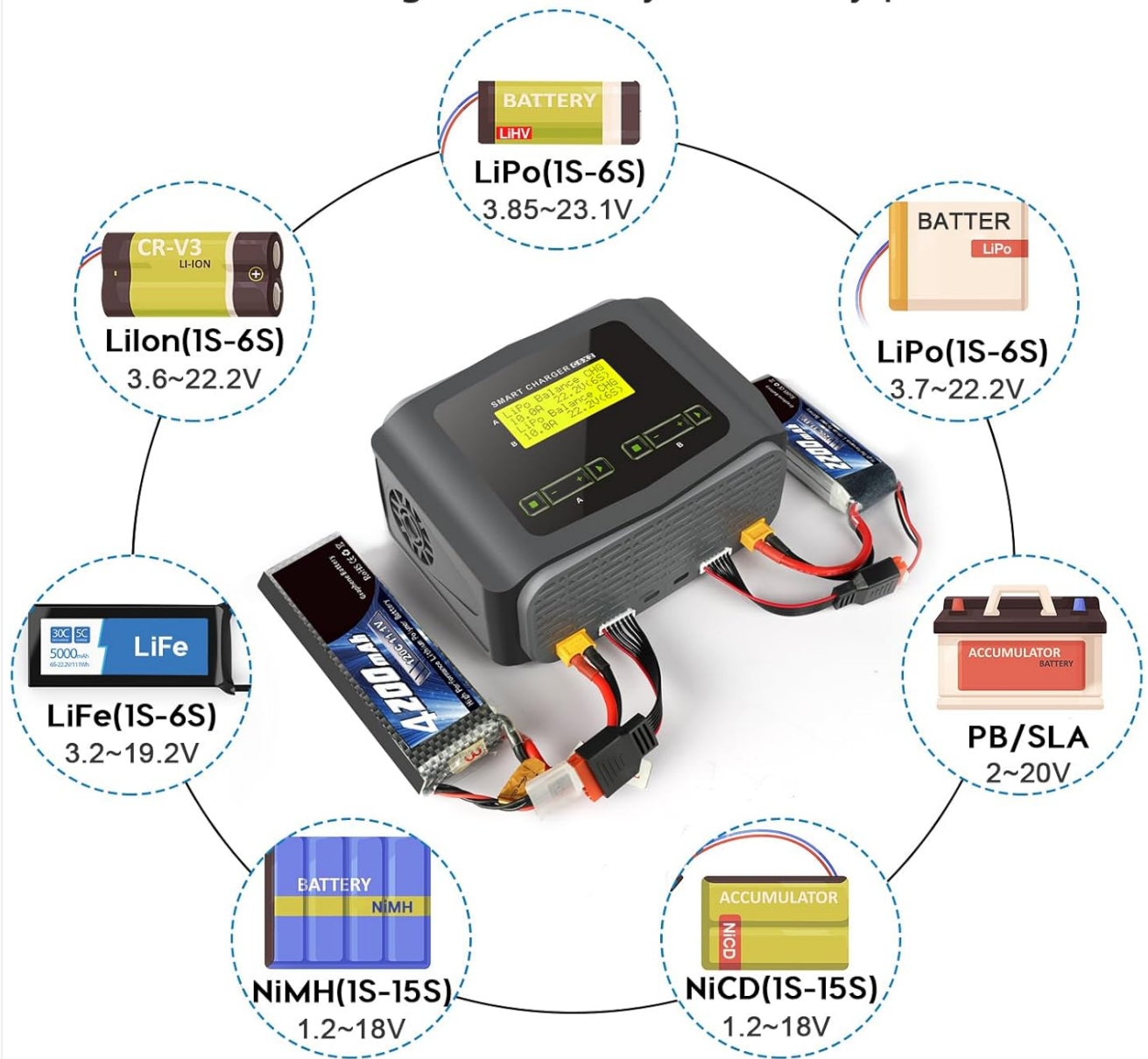


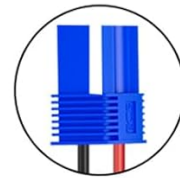
Figure 4: The HTRC C6X2 charger supports various battery types including LiHV, LiPo, Li-ion, LiFe, NiMH, NiCD, and PB/SLA.

OUTPUT CONNECTORS

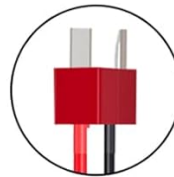
Note: Each channel can charge one battery only.



XT60 to EC5



XT60 to Charging cable



T-plug



Tamiya



Crocodile clip

Figure 5: The charger's output connectors, including XT60 to EC5 and a multi-connector XT60 charging cable.

SETUP AND CONNECTION

Follow these steps to set up your HTRC C6X2 charger:

1. **Power Connection:** Plug the AC power cable into the charger's AC input port and then into a wall outlet. Alternatively, for DC input, connect the DC cable to a compatible 11-18V DC power source. *Do not use both AC and DC inputs simultaneously.*
2. **Battery Connection:**
 - Connect the main plug of your battery to the corresponding output port on the charger (Channel A or Channel B).
 - Connect the balance extension cord from your battery's balance port to the charger's balance port, ensuring correct polarity (from right to left, as indicated on the charger).
3. **Power On:** Turn on the charger using the power switch. The large screen will illuminate.

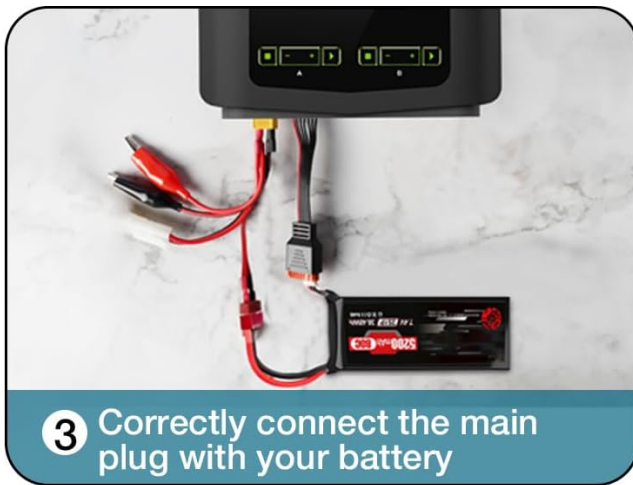
HOW TO CONNECT?



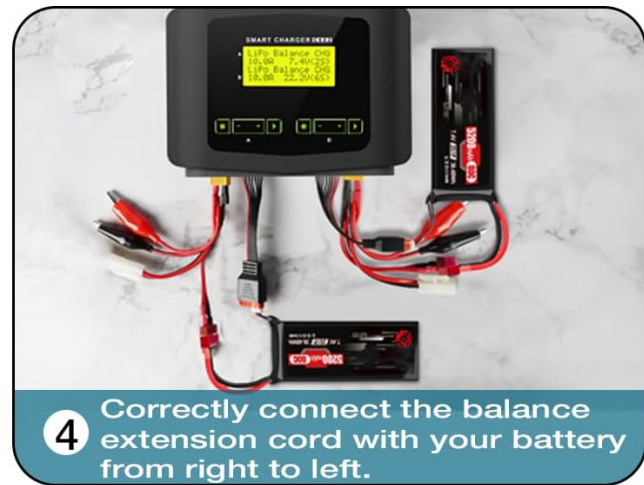
1 Plug in the AC line



2 Connect the balance extension cord



3 Correctly connect the main plug with your battery



4 Correctly connect the balance extension cord with your battery from right to left.



Correctly connect your battery with the balance extension cord (From right to left).

Note: Each channel can charge one battery only.

Figure 6: Detailed steps for connecting the AC line, balance extension cord, and main battery plug to the charger.

OPERATING INSTRUCTIONS

The HTRC C6X2 features an intuitive interface for easy operation.

1. **Select Battery Type:** On the main screen, use the navigation buttons to select the appropriate battery chemistry (e.g., LiPo, NiMH) for the connected battery.
2. **Choose Mode:** Select the desired operation mode (Charge, Balance Charge, Discharge, Storage). For most LiPo batteries, "Balance Charge" is recommended.
3. **Adjust Parameters:** Set the charging current (Amps) and voltage (Volts) according to your battery's specifications. The charger can automatically detect cell count.
4. **Start Process:** Confirm your settings and initiate the charging/discharging process. The screen will display real-time information such as current, voltage, and elapsed time.
5. **Monitor Progress:** Periodically check the charger's display to monitor the battery's status. The charger will automatically stop when the battery is fully charged or the process is complete.
6. **Load Memory Function:** To use a saved profile, navigate to the memory function, select the desired data,

and execute the process directly without manual setting.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your charger.

- **Cleaning:** Use a soft, dry cloth to clean the charger's exterior. Do not use liquid cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Cable Inspection:** Regularly inspect all cables and connectors for signs of wear, damage, or corrosion. Replace any damaged cables immediately.
- **Ventilation:** Ensure the charger's ventilation openings are clear of dust and debris to prevent overheating.

TROUBLESHOOTING

If you encounter issues with your HTRC C6X2 charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger does not power on.	No power supply; loose connection; faulty power cable.	Check power outlet/source. Ensure AC/DC cables are securely connected. Try a different power cable if available.
"Connection Break" or similar error.	Battery not properly connected; damaged cable.	Verify main and balance connections are secure. Inspect cables for damage.
Charging process stops prematurely.	Incorrect battery settings; battery fault; overheating.	Confirm battery type and cell count settings. Check battery health. Ensure adequate ventilation around the charger.
Screen displays "ERR ERR ERR".	Internal error or specific fault.	Disconnect power, wait a few minutes, then reconnect. If the error persists, contact customer support.

SPECIFICATIONS

Technical specifications for the HTRC C6X2 Dual RC Battery Charger:

Feature	Specification
Input Voltage	AC 100-240V / DC 11-18V
Charge Circuit Power	AC: 150W (CH1+CH2=150W) / DC: 240W (CH1+CH2=240W)
Discharge Power	10W
Charge Current Range	0.1-10A * 2
Discharge Current Range	0.1-2A * 2
LiPo/LiHV/Li-ion/LiFe Cell Count	1-6S
NiCD/NiMH Cell Count	1-15S

Feature	Specification
PB Battery Voltage	2-20V
Product Dimensions	7.8 x 7.8 x 3.1 inches
Item Weight	2.29 pounds

FASTER CHARGING

C6X2 Dual channel charger



INPUT

AC:MAX 240V
DC:MAX 18V

CHARGER POWER

AC:CHA/B 150W
DC:240W

CHARGER CURRENT

MAX 10A*2

Figure 7: Input voltage, charger power, and charge current specifications for the C6X2 dual channel charger.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official HTRC website. Keep your purchase receipt as proof of purchase for any warranty claims.

HTRC Customer Service: For assistance, please contact HTRC support through their official channels.

