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› [ATA HOBBY](#) /

› [HOTA D6 Pro RC Battery Charger Instruction Manual](#)

ATA HOBBY D6 Pro

HOTA D6 Pro RC Battery Charger Instruction Manual

Model: D6 Pro | Brand: ATA HOBBY

INTRODUCTION

The HOTA D6 Pro is a versatile dual-channel smart balance charger designed for a wide range of RC battery types. It offers advanced features for efficient and safe battery management, suitable for various applications including RC cars, boats, and FPV drones.

Key features include:

- Large IPS Screen for clear display and easy navigation.
- Comprehensive all-in-one protection features to ensure safe operation.
- Flexible input power options: AC100-240V and DC 6.5-30V.
- Support for multiple battery chemistries: LiH/LiF/Lilon/Lixx (1-6S), NiZn/Nicd/NiMH (1-16S), Smart Battery (1-6S), Lead Acid(Pb) (2-24V), and Enelop (1-16S).
- Integrated wireless charging for compatible mobile devices.

PRODUCT OVERVIEW

The HOTA D6 Pro charger features a compact design with intuitive controls and multiple ports for various charging needs.

Specifications



Figure 1: HOTA D6 Pro Smart Charger with labeled components including DC Port, Channel Switch, Balance Ports, Battery Ports, AC Port, USB Port 5V, Update Port, and Speed Shuttle Key.

The charger includes two independent charging channels, each with dedicated battery and balance ports. A speed shuttle key allows for easy navigation through menus and settings. Additionally, a USB 5V port is available for charging external devices, and an update port is provided for firmware upgrades.

SETUP

1. Unboxing and Initial Inspection

Carefully remove the HOTA D6 Pro charger and all accessories from its packaging. Inspect the unit for any signs of damage. Ensure all components listed in the packing list are present.

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Video 1: Unboxing and initial overview of the HOTA D6 Pro charger, demonstrating its compact size and included accessories.

2. Power Connection

Connect the provided AC power cable to the AC input port on the back of the charger and then to a suitable wall outlet (AC 100-240V). Alternatively, for DC input, connect a DC power source (6.5-30V) to the DC input port using an XT60 connector.

HOTA D6 PRO

AC/DC Dual Channel Smart Charger

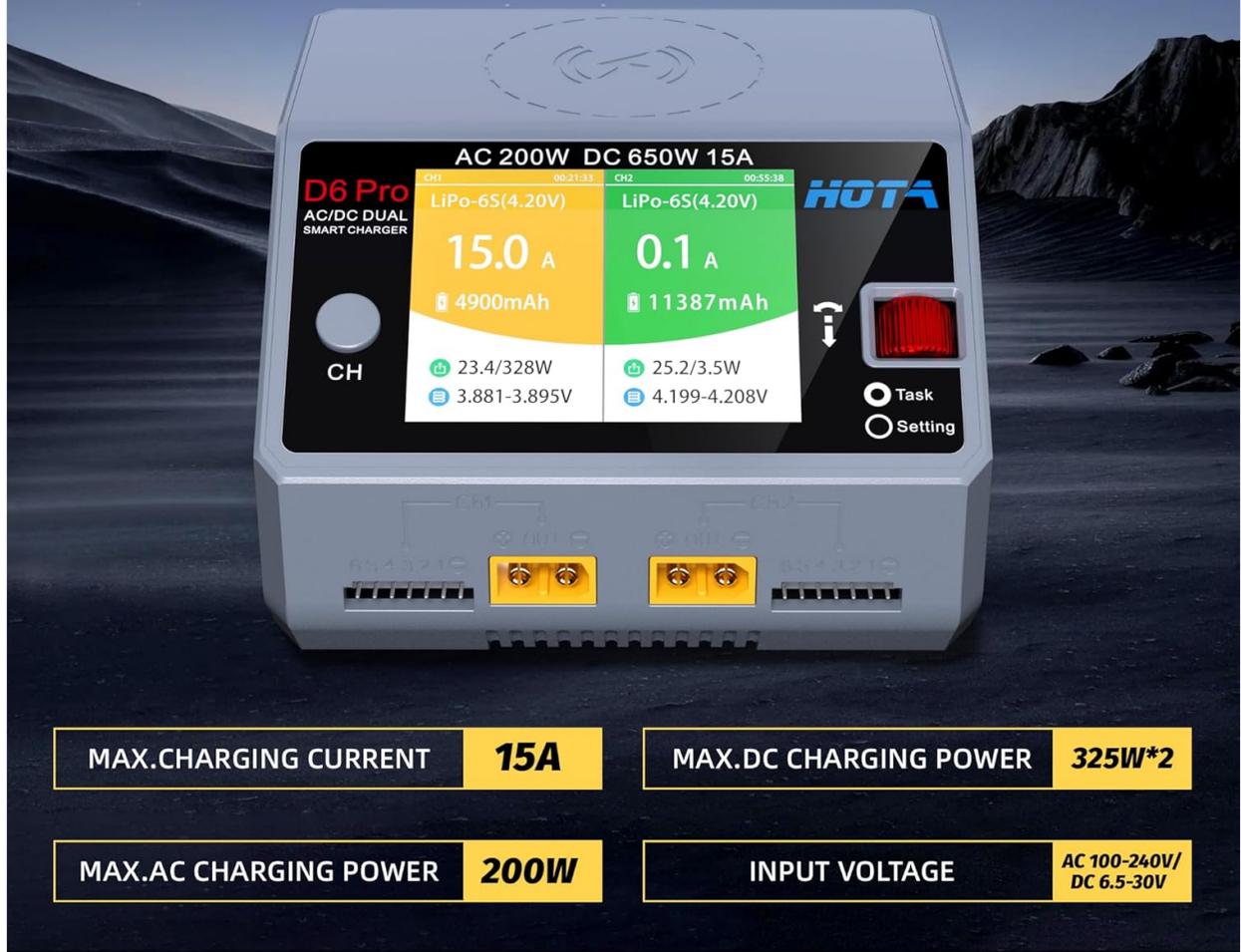


Figure 2: Front view of the HOTA D6 Pro charger highlighting its AC 200W and DC 650W (15A) power capabilities.

3. Initial Power-On

Once powered, the charger will perform a self-check and display the main interface on its IPS screen. The fan may activate upon power-on.

OPERATING INSTRUCTIONS

1. Navigating the Interface

Use the 'CH' button to switch between Channel 1 and Channel 2. The speed shuttle key (red wheel) is used to scroll through menu options and adjust settings. A short press confirms a selection, and a long press typically exits a menu or stops a task.

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Video 2: Detailed demonstration of the HOTA D6 Pro's user interface, including navigation, task settings, and system parameters.

2. Connecting Batteries

Connect your battery's main power lead to the XT60 output port for the desired channel (CH1 or CH2). For balanced charging, also connect the battery's balance lead to the corresponding balance port. The charger

supports 1S to 6S balance leads directly.



Figure 3: Close-up view of the dual-channel output and balance connectors, emphasizing the integrated design for improved durability.

3. Selecting a Task

From the main screen, select the desired channel (CH1 or CH2). Press the speed shuttle key to enter the task settings. You can choose from the following tasks:

- **Charge:** Standard charging mode. The charger will automatically balance the cells if the balance lead is connected.
- **Discharge:** Discharges the battery to a specified voltage.
- **Ext. Discharge:** For completely discharging a battery, often used for disposal.
- **Storage:** Charges or discharges the battery to a safe voltage level for long-term storage. This is crucial for battery longevity.
- **Balance:** Rebalances individual cells within a battery pack.
- **Sync Charge:** Combines the power of both channels to charge a single battery at a higher rate (e.g., for very large capacity batteries).
- **Power Supply:** Converts the charger into a continuous DC power supply.

4. Setting Battery Parameters

After selecting a task, adjust the battery type, cell voltage (for LiPo/LiHv), cell count (S), and current setting (Amps). Always ensure these settings match your battery's specifications to prevent damage.

Charging Current (1C Rule): For most LiPo batteries, it is recommended to charge at a "1C" rate. This means the charging current in Amps should be equal to the battery's capacity in Amp-hours (Ah). For example, a 750mAh (0.75Ah) battery should be charged at 0.75A. Some batteries may support higher charge rates (e.g., 2C or 3C); always refer to your battery's manufacturer specifications.

5. Wireless Charging

The HOTA D6 Pro features a wireless charging pad on top. Simply place a compatible mobile device (e.g., iPhone X, iPhone 8, Samsung S8) on the pad to initiate wireless charging.



Figure 4: HOTA D6 Pro demonstrating its wireless charging capability for mobile devices.

MAINTENANCE

- Keep the charger clean and free from dust and debris.
- Store the charger in a cool, dry place away from direct sunlight and extreme temperatures.
- Regularly check cables and connectors for wear or damage. Replace if necessary.
- Ensure proper ventilation around the charger during operation to prevent overheating.

TROUBLESHOOTING

1. "Battery Polarity Connected Wrong" Error

This error indicates that the battery's main power lead is connected with incorrect polarity. Immediately disconnect the battery and re-connect it with the correct positive and negative terminals aligned.

2. "Abnormal Battery Connection" Error

This error can occur if the balance lead is not properly connected or if there is an issue with the battery's internal balance. Ensure the balance lead is fully inserted and check the battery for any physical damage.

3. Charger Not Starting Task

Verify that all battery parameters (type, cell count, voltage, current) are correctly set according to your battery's specifications. Ensure both the main power lead and balance lead (if required for the task) are securely connected. The charger may also prevent starting if a safety parameter (e.g., max capacity, safety timer) is exceeded or if the battery's internal resistance is too high.

4. Fan Always On

The charger's fan may run continuously to maintain optimal operating temperature. This is normal behavior, especially during high-power charging tasks. If the fan noise is a concern, check system settings for volume adjustments, though continuous fan operation is often for cooling efficiency.

SPECIFICATIONS

Feature	Detail
Input Voltage	AC 100-240V / DC 6.5-30V
Charge Current	0.1-15A x 2
Charge Power	DC 325W x 2 (@ input voltage > 24V), AC 200W (support power distribution)
Discharge Power	Internal Discharge: 15W x 2 (balance port 10W), External Discharge: 325W x 2 (650W)
Battery Type Compatibility	LiHV/LiPo/LiFe/Lilon/Lixx: 1-6S; NiZn/Nicd/NiMH: 1-16S; Smart Battery: 1-6S; Lead Acid(Pb): 1-12S (2-24V); Eneloop: 1-16S
Balance Current	1600mA x 2
Discharge Current	0.1-3A x 2

External Discharge Current	1-15A x 2
USB Output	5V / 2.1A
Storage Temperature	-20 ~ 60°C
Operating Temperature	0 ~ 40°C
Screen Size	2.8" 320x240 260000 colors
Dimensions	108mm x 105mm x 76mm (4.25 x 4.13 x 3 inches)
Net Weight	584g (1.29 pounds)

WARRANTY AND SUPPORT

For firmware updates and additional support, please visit the manufacturer's website: www.hota-exp.com. Please note that the website content may require translation. Refer to your purchase documentation for specific warranty information.