

ULTRA POWER UP8

ULTRA POWER UP8 AC 400W / DC 600W Dual Channel Smart Charger User Manual

1. INTRODUCTION

The ULTRA POWER UP8 is a high-performance dual-channel smart charger designed for various battery types, including LiPo, LiHV, Lilon, LiFe, NiMh, NiCd, and Lead Acid batteries. It features both AC and DC input capabilities, a clear LCD display, and multiple charging and discharging modes. This manual provides essential information for the safe and efficient operation of your UP8 charger.

2. SAFETY INFORMATION

Please read and understand all safety instructions before using the charger. Failure to do so may result in property damage, personal injury, or permanent battery damage.

- Always operate the charger in a well-ventilated area, away from flammable materials.
- Never leave the charger unattended during operation.
- Ensure the correct battery type, cell count, and charging parameters are selected for each battery. Incorrect settings can cause severe damage.
- Do not attempt to charge damaged, swollen, or leaking batteries.
- Keep the charger away from moisture, dust, and direct sunlight.
- Use only original or approved accessories and cables.
- Disconnect power immediately if any abnormal behavior is observed.

3. PRODUCT OVERVIEW

The ULTRA POWER UP8 Smart Charger is equipped with advanced features for efficient and safe battery management.



The image displays the ULTRA POWER UP8 Smart Charger, featuring a dual-channel LCD screen showing charging parameters for two LiPo 6S batteries. Each channel displays voltage (24.0V), current (12.5A), capacity (12000mAh), and elapsed time (0:58:00), along with individual cell voltages. The top of the unit includes a wireless charging pad icon. The front panel shows two sets of balance ports (2-6S) and main battery ports (BAT), along with temperature sensor ports. Control knobs for each channel are visible on the right side.

3.1 Key Features

- 3.5" 480x320 LCD Display for clear information.
- Dual-channel output for simultaneous charging/discharging of two batteries.
- Multiple Charge/Discharge Modes.
- Integrated Servo/Motor Test Function.
- 10 Watt Wireless Charging Pad for compatible mobile phones.
- Supports a wide range of battery chemistries: LiPo, LiHV, Lilon, LiFe, NiMh, NiCd, & Lead Acid.
- AC Input: Max 400W (CH1+CH2=400W) with power distribution.
- DC Input: 2x300W charge power.

3.2 Components and Controls

- **LCD Display:** Shows real-time charging status, parameters, and menu options.
- **Control Knobs:** Two rotary knobs (one for each channel) for menu navigation and parameter adjustment.
- **Main Battery Ports (BAT):** Connect the main power leads of your battery.

- **Balance Ports (2-6S):** Connect the balance lead of your battery for cell voltage monitoring.
- **Temperature Sensor Ports (Temp.):** Connect optional temperature sensors for monitoring battery temperature during charging.
- **Wireless Charging Pad:** Located on the top surface for wireless charging compatible devices.
- **AC Input Port:** Connects to a standard AC power outlet.
- **DC Input Port:** Connects to an external DC power source (e.g., car battery, power supply).

4. SETUP

4.1 Power Connection

1. **AC Power:** Connect the supplied AC power cord to the charger's AC input port, then plug it into a suitable wall outlet (100-240V AC).
2. **DC Power:** Alternatively, connect a DC power source (9.0-33.0V DC) to the charger's DC input port using appropriate cables.

The charger will power on and display the main menu.

4.2 Battery Connection

For each battery you intend to charge:

1. Connect the main power leads of the battery to the corresponding main battery port (BAT) on the charger. Ensure correct polarity.
2. Connect the balance lead of the battery to the appropriate balance port (2-6S) on the charger.
3. If using an optional temperature sensor, connect it to the battery and the charger's temperature sensor port.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

1. **Power On:** Once connected to power, the charger will automatically turn on.
2. **Channel Selection:** The UP8 has two independent channels. Use the respective control knob to select and configure each channel.
3. **Menu Navigation:** Rotate the control knob to scroll through menu options. Press the knob to confirm a selection or enter a setting.

5.2 Charging a Battery

1. Connect the battery to the desired channel as described in Section 4.2.
2. On the selected channel's display, navigate to the desired charging mode (e.g., LiPo Charge, LiPo Balance Charge, NiMh Charge).
3. Adjust the battery type, cell count (for Lithium batteries), and charging current according to your battery's specifications.
4. Confirm the settings. The charger will perform a pre-charge check.
5. Press the control knob to start the charging process. The display will show real-time charging data.
6. To stop charging, press the control knob again and confirm 'Stop'.

5.3 Discharging a Battery

1. Connect the battery to the desired channel.
2. Navigate to the desired discharging mode (e.g., LiPo Discharge, NiMh Discharge).

3. Set the discharge current and the desired end voltage.
4. Confirm settings and start the discharge process.

5.4 Wireless Charging

The UP8 features a 10W wireless charging pad on its top surface.

1. Ensure the UP8 charger is powered on.
2. Place your compatible mobile phone or device on the wireless charging pad.
3. The device should indicate that it is charging wirelessly.

5.5 Servo/Motor Test Function

Refer to the on-screen menu for detailed instructions on using the servo/motor test function. This feature allows you to test the functionality of servos or motors by providing controlled power output.

6. MAINTENANCE

6.1 Cleaning

- Always disconnect the charger from all power sources before cleaning.
- Use a soft, dry cloth to wipe the exterior of the charger.
- Do not use solvents or abrasive cleaners.
- Ensure ventilation openings are free from dust and debris.

6.2 Storage

- Store the charger in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep it out of reach of children.
- Disconnect all batteries and power cables before storing.

7. TROUBLESHOOTING

If you encounter issues with your UP8 charger, refer to the following common solutions:

- **Charger does not power on:** Verify that the AC or DC power cable is securely connected and the power source is active.
- **"Check Main Port" or connection error:** Ensure all battery main leads and balance leads are correctly and securely connected to the charger. Check for damaged wires or connectors.
- **Charging process does not start:** Double-check that the battery type, cell count, and charging current settings match your battery's specifications. Confirm the start command.
- **Over-temperature warning:** Ensure the charger is in a well-ventilated area. If using a temperature sensor, check its placement and functionality. Allow the charger or battery to cool down.
- **Unresponsive display/controls:** Disconnect power, wait a few seconds, and reconnect to perform a soft reset.

For persistent issues, refer to the manufacturer's support resources.

8. SPECIFICATIONS

Parameter	Value
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Input Voltage	AC 100-240V, DC 9.0-33.0V
Output Voltage	0.1-30.0V
Charging Current	0.1-16.0A x2
Charge Power (DC Input)	2x300W
Charge Power (AC Input)	Max 400W (CH1+CH2=400W)
Discharge Current (CH1)	8W up to 3.0A (or 200W up to 15.0A w/Optional External Discharger)
Discharge Current (CH2)	8W up to 3.0A
Wireless Charge Power	Max 10W
Supported Battery Types	LiPo, LiHV, Lilon, LiFe, NiMh, NiCd, Lead Acid
Display	3.5" 480x320 LCD
Dimensions	125x119x76mm
Weight	780g

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact the retailer where you purchased the ULTRA POWER UP8 charger or refer to the official ULTRA POWER website for manufacturer contact details. Please retain your proof of purchase for warranty claims.

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