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Bestpriceic M6D

ToolkitRC M6D Charger and ADP100 Power Supply User Manual

Model: M6D, ADP100

Introduction

This manual provides detailed instructions for the safe and efficient operation of your ToolkitRC M6D Dual-Channel Charger and ADP100 Power Supply Unit. The M6D is a compact, high-density dual-channel balanced charger designed for various battery types, offering precise charging capabilities. The ADP100 is a compact power supply unit designed to complement the M6D charger.

Safety Information

Read all safety warnings and instructions before using this product. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Always use the charger in a well-ventilated area, away from flammable materials.
- Do not expose the charger or power supply to moisture or extreme temperatures.
- Ensure correct battery polarity before connecting to the charger.
- Never leave charging batteries unattended.
- Keep out of reach of children.
- Disconnect power when not in use.

Package Contents

Verify that all items listed below are included in your package:

- 1 x ToolkitRC M6D Dual Smart Charger
- 1 x ToolkitRC ADP100 Power Supply Unit
- 1 x Power Cable (US Plug)



Image: The ToolkitRC M6D charger and ADP100 power supply unit, along with connecting cables.

Product Overview

M6D Dual Smart Charger



Image: Front view of the M6D charger with key components labeled, including input, USB port, cooling fan, channel & exit key, wheel key, CH1/CH2 main ports, CH1/CH2 balance ports, and external temperature sensor port.

- **Input Port:** Connects to the power supply (e.g., ADP100).
- **USB Port:** Provides 5V output for mobile phone charging and firmware upgrades.
- **Cooling Fan:** Dissipates heat during operation.
- **CH.EXIT Key:** Used for channel selection and exiting menus.
- **Wheel Key:** Navigates menus and adjusts settings.
- **CH1/CH2 Main Ports:** XT60 connectors for main battery connection.
- **CH1/CH2 Balance Ports:** JST-XH connectors for battery balancing.
- **Exter. Temp. Sensor:** Port for an optional external temperature sensor.
- **IPS 2.4 inch Display:** High-resolution screen for displaying charging information and settings.

ADP100 Power Supply Unit

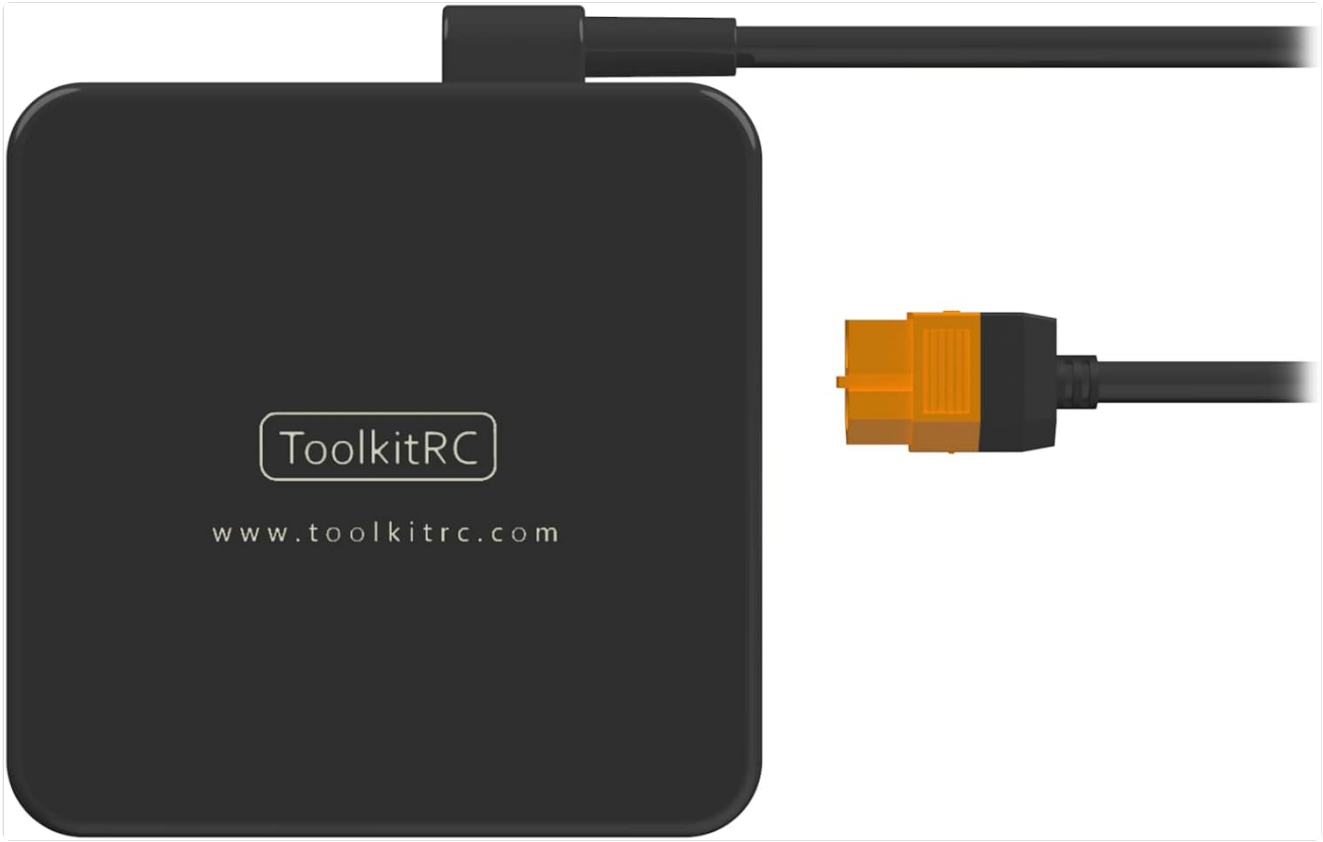


Image: The compact ToolkitRC ADP100 power supply unit with its output cable.

The ADP100 is a compact and portable power supply designed specifically for ToolkitRC M series DC chargers. It features a safe case design with no bare metal or wire terminals, and includes over current protection.

Setup

1. **Connect Power Supply:**

   Connect the AC power cable to the ADP100 power supply unit, then plug the ADP100 into a standard AC outlet (100-240V, 50-60Hz). Connect the DC output cable of the ADP100 (XT60 connector) to the input port of the M6D charger.

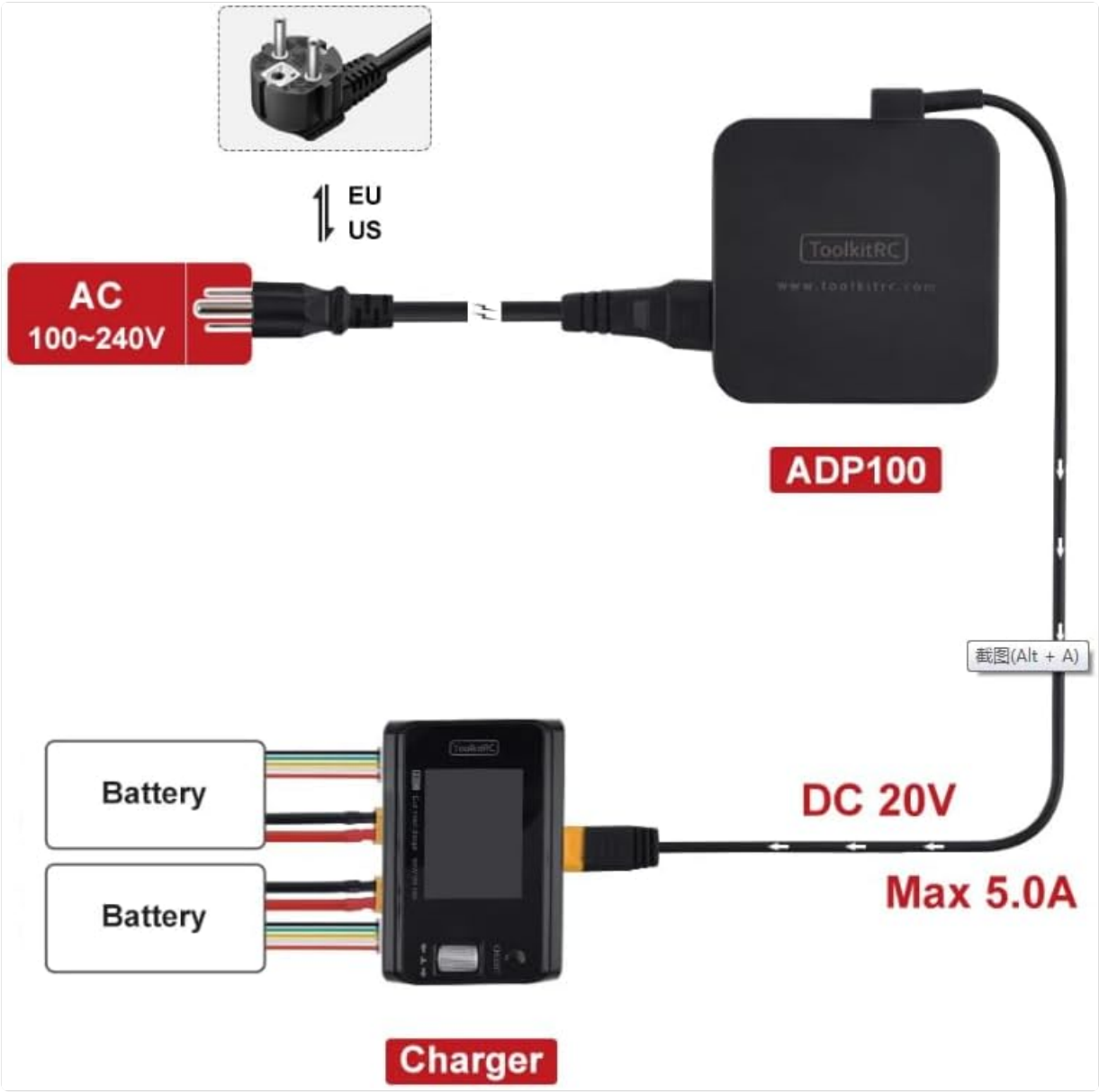


Image: A diagram illustrating how to connect the ADP100 power supply to the M6D charger, showing AC input to ADP100 and DC output to the charger.

2. **Power On:**

   Once connected, the M6D charger display will power on, showing the main interface.

3. **Connect Battery:**

   Connect your battery's main discharge lead to either CH1 or CH2 Main Port (XT60). For balanced charging, also connect the battery's balance lead to the corresponding CH1 or CH2 Balance Port.

Operating Modes

The M6D charger supports both asynchronous and synchronous charging modes.

Asynchronous Mode

In asynchronous mode, each channel (CH1 and CH2) operates independently, allowing you to charge or discharge two different batteries simultaneously with individual settings. The maximum charging power per channel is 250W (0.1-15A).

Synchronous Mode

In synchronous mode, both channels combine their power output to charge a single battery at a higher rate. This

mode is ideal for large capacity batteries requiring faster charging. The maximum combined charging power is 500W (0.1-25A).



Image: A diagram illustrating the synchronous charging mode, where both channels of the M6D charger are connected to a single battery for combined power output.

To enable synchronous mode, navigate to "System Settings" on the charger's display and select "Setting the Synchronous" to "ON".

Basic Operation

1. **Select Channel:** Use the CH.EXIT key to switch between Channel 1 and Channel 2, or to exit a menu.
2. **Navigate Menus:** Use the Wheel Key to scroll through options and adjust values. Press the Wheel Key to confirm selections.
3. **Start Charging:**
    - Connect your battery to the appropriate main and balance ports.
    - Select the desired battery type (LiPo, LiHV, LiFe, etc.).

- Set the charging current and cell count (for LiPo/LiFe/etc.).
- Confirm settings and start the charging process. The display will show real-time charging data.



Image: A close-up view of the M6D charger's IPS display showing charging parameters, battery voltage, current, capacity, and internal resistance for both channels.

4. **Discharging:**

   The M6D supports two discharging modes: Recycle Mode (0.1-15A @ 250W*2) and Normal Mode (0.1-3A @ 12W*2). Select the appropriate mode and settings for discharging your battery.

Advanced Features

USB Interface

The integrated USB port on the M6D charger serves two primary functions:

- **Mobile Phone Charging:** Provides a 5V, 2.1A output for charging mobile devices.
- **Firmware Upgrade:** Allows for easy firmware upgrades via USB 3.0, ensuring your charger always has the latest features and improvements.

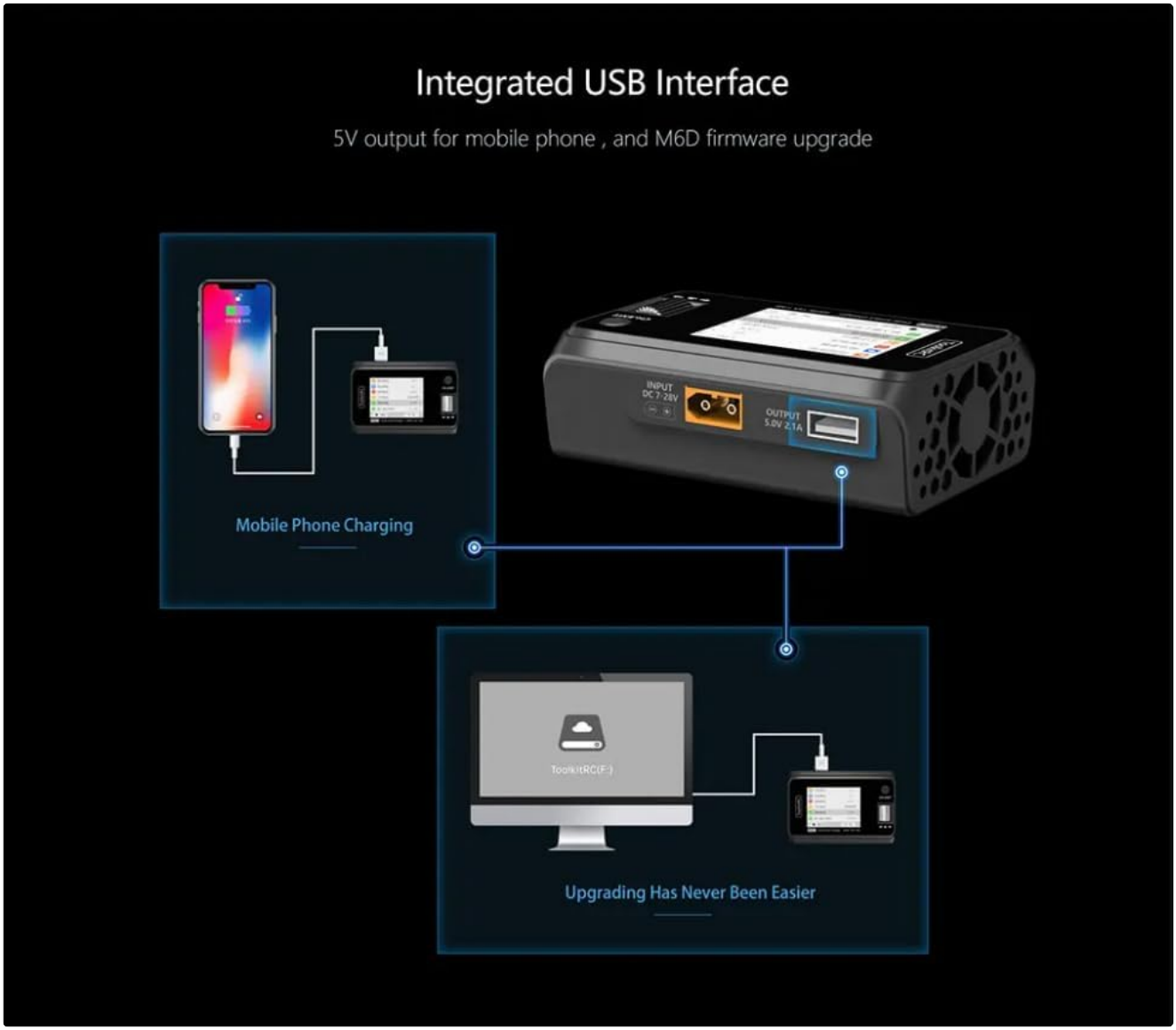


Image: A diagram illustrating the dual functionality of the M6D's USB port, showing connections for mobile phone charging and firmware upgrades via a computer.

Specifications

ToolkitRC M6D Charger

Feature	Specification
Input Voltage	7-28V @ MAX 30A
Battery Type Support	LiPo/LiHV/LiFe/Lion (1-6S), NiMh (1-16S), Pb (1-10S)
Charging Power	0.1-15A @ 250W *2 (Asynchronous), 0.1-25A @ 500W (Synchronous)
Discharging Power	0.1-15A @ 250W*2 (Recycle Mode), 0.1-3A @ 12W*2 (Normal Mode)
Balance Current	800mA @ 2-6S
Charging Precision	0.005V
Battery Cell Voltage	1.0V-5.0V @ 1-6S
Battery Internal Resistance	1-100mR @ 1-6S

Display	IPS 2.4 inch, 320*240 resolution
Dimensions	98mm x 68mm x 35mm (3.86"D x 1.38"W x 1.38"H)
Weight	220g (7.8 ounces)
USB Port Output	2.1A @ 5V (Upgrade @ USB3.0)

ToolkitRC ADP100 Power Supply

Feature	Specification
Model	ADP100
Input AC	100-240V, 50-60Hz, 1.5A
Power	100W
Output DC	20V, 5A (XT60 Main Plug)
Safety Features	Safe case design, Over Current Protection

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the surfaces of the charger and power supply. Do not use liquid cleaners or solvents.
- **Storage:** Store the devices in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Cable Inspection:** Regularly inspect all cables for signs of wear, damage, or fraying. Replace damaged cables immediately.
- **Ventilation:** Ensure the cooling fan and ventilation openings on the M6D charger are clear of dust and debris to prevent overheating.

Troubleshooting

Problem	Possible Cause	Solution
Charger does not power on.	No power from ADP100; ADP100 not plugged in; faulty cable.	Check AC power connection to ADP100. Ensure ADP100 is connected to M6D. Test with a different cable if available.
Battery not charging.	Incorrect battery type/cell count selected; poor connection; battery fault.	Verify battery type and cell count settings. Ensure main and balance leads are securely connected. Check battery health.
Charger displays an error message.	Over-voltage, under-voltage, short circuit, or internal error.	Refer to the specific error code on the display. Disconnect and reconnect the battery. If persistent, contact support.
Charger gets excessively hot.	Poor ventilation; operating in high ambient temperature; fan obstructed.	Ensure adequate airflow around the charger. Clear any obstructions from the cooling fan. Operate in a cooler environment.

Warranty and Support

For warranty information and technical support, please refer to the manufacturer's official website or contact your point of purchase. Keep your proof of purchase for warranty claims.

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