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LYONGTECH 230W Multifunction Battery Charger

LYONGTECH 230W Multifunction Battery Charger for DJI Mavic 4 Pro Drone User Manual

Model: 230W Multifunction Battery Charger

Overview Package Contents Setup Operating
Modes Specifications Maintenance Troubleshooting Warranty & Support

1. Product Overview

The LYONGTECH 230W Multifunction Battery Charger is designed for DJI Mavic 4 Pro drone batteries. This charging hub offers multiple functionalities including full charge, quick charge, storage charge, discharge, and the ability to use a Mavic 4 battery as a power bank for other devices.



Figure 1: LYONGTECH 230W Multifunction Battery Charger.

2. Package Contents

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

- 1 x Charger Unit
- 1 x AC Power Cable
- 1 x DC Power Cable (Car Charger)
- 1 x Discharger Unit
- 1 x USB-C to USB-C Cable
- 1 x USB-A to USB-C Cable

Note: DJI Mavic 4 Pro batteries are not included with this charger.



Figure 2: Package Contents.

3. Setup and Connection

The charger supports three input modes: AC, DC, and PD (Type-C). Select the appropriate cable for your power source.

1. **Connect Power Source:**
    - For AC power (home/wall outlet): Connect the AC power cable to the charger's AC input port and then to a wall outlet (100-240V).
    - For DC power (car): Connect the DC power cable to the charger's DC input port and then to your vehicle's 12V power socket (11-14V/10A Max).
    - For PD power (Type-C): Connect a Type-C cable to the charger's Type-C input port and to a compatible PD power source (5-20V/100W Max).
2. **Insert Batteries:** Carefully insert up to three DJI Mavic 4 Pro batteries into the designated charging slots on the charger.
3. **Connect Remote Controller (Optional):** If charging the remote controller simultaneously, connect it to one of the

USB output ports on the charger using the appropriate USB cable.



Figure 3: Three Input Modes (AC, DC, PD).

4. Operating Modes

The charger offers five distinct operating modes to manage your DJI Mavic 4 Pro batteries.

4.1. Full Charge Mode

In Full Charge Mode, batteries are charged to 100% capacity. This mode is suitable for immediate use of your drone.

- Charging time for 2 batteries: Approximately 55 minutes.
- Charging time for 3 batteries: Approximately 75 minutes.

4.2. Quick Charge Mode

Quick Charge Mode charges batteries to approximately 95% capacity. This mode prioritizes speed for rapid deployment.

- Charging time for 3 batteries: Approximately 70 minutes.



Figure 4: Fast Charging in Full and Quick Charge Modes.

4.3. Storage Charge Mode

This mode is designed for long-term battery health. Batteries with more than 60% charge will discharge, while batteries with less than 60% charge will be charged. The process automatically stops when the battery reaches 60% power, which is the recommended level for extended storage.



Figure 5: Storage Charge Mode operation.

4.4. Discharge Mode

The Discharge Mode allows you to reduce the battery's charge level to either 10% or 60%. This can be useful for specific maintenance procedures or preparing batteries for transport.



Figure 6: Discharge Mode in action.

4.5. Power Bank Function

The charger can utilize a DJI Mavic 4 Pro battery as a power bank to charge other USB devices, such as a remote controller or a smartphone. Connect your USB device to the charger's USB output port.



Figure 7: Using the Charger as a Power Bank.

4.6. LED Indicators

The charger features 8 LED lights that provide comprehensive information on its operational status, input power level, and battery temperature protection warnings (low/high temperature).



Figure 8: LED Indicator Guide.

5. Technical Specifications

Feature	Specification
Brand	LYONGTECH
Product Dimensions (D x W x H)	1.3" x 2.99" x 2.91"
Input Voltage	AC 100-240V (230W MAX), DC 11-14V/10A (Max), Type-C 5-20V (100W MAX)
Output Voltage	17.2V/4.5A x 3 or 7.5A x 2
Output Total Power	230W (Max)
USB Output	5V 3A

Number of Ports	7 (3 battery slots, AC, DC, Type-C, USB-A)
Battery Charge Time (Full Charge Mode)	2 batteries: ~55 minutes; 3 batteries: ~75 minutes
Battery Charge Time (Quick Charge Mode)	3 batteries: ~70 minutes (to 95%)
Color	Grey

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the charger. Do not use liquid cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For long-term storage of batteries, utilize the Storage Charge Mode to maintain battery health.
- **Inspection:** Regularly inspect cables and connectors for any signs of damage. Discontinue use if damage is observed.

7. Troubleshooting

Problem	Possible Cause	Solution
Charger not powering on.	No power supply, loose connection, faulty cable.	Ensure power cable is securely connected to both charger and power source. Try a different outlet or cable.
Batteries not charging.	Battery not inserted correctly, faulty battery, incorrect mode.	Re-insert batteries firmly. Check LED indicators for error codes. Ensure charger is in a charging mode (Full or Quick Charge).
Slow charging.	Low power input, multiple devices charging simultaneously.	Ensure power source meets required wattage (e.g., 230W for AC). Disconnect other devices if faster charging is needed for batteries.
Temperature warning LED active.	Battery or charger operating outside optimal temperature range.	Move charger and batteries to a cooler or warmer environment. Allow components to reach room temperature before resuming operation.

8. Video Demonstration

Your browser does not support the video tag.

Video 1: Official demonstration of the LYONGTECH 230W Fast Charger for Mavic 4 Pro battery, showcasing its features and operation.

9. Warranty and Support

This LYONGTECH product comes with a**1 Year Manufacturer Warranty**.
For technical support, warranty claims, or further inquiries, please contact LYONGTECH customer service through their official channels or the retailer where the product was purchased.

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