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LYONGTECH Multifunction LCD Charger

LYONGTECH Multifunction LCD Charger User Manual

For DJI Mini 5 Pro, Mini 4 Pro, Mini 3 Series, and Mini 3 Pro Drone Batteries

1. Introduction

The LYONGTECH Multifunction LCD Charger is designed for efficient and intelligent battery management of DJI Mini 5 Pro, Mini 4 Pro, Mini 3 Series, and Mini 3 Pro drone batteries. This charger offers multiple functions including full charging, storage charging, battery discharge (power bank function), and battery level checking, all displayed on a clear LCD screen.

2. Package Contents

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

- 1 x LYONGTECH Multifunction LCD Charger (3 battery ports)
- 1 x USB-A to USB-C Charging Cable
- 1 x USB-C to USB-C Charging Cable

Note: USB-A output cable and drone batteries are not included.



Image: The package includes the LCD charger, a USB-A to USB-C cable, and a USB-C to USB-C cable.

3. Product Features and Functions

The LYONGTECH Multifunction LCD Charger provides comprehensive battery management capabilities:

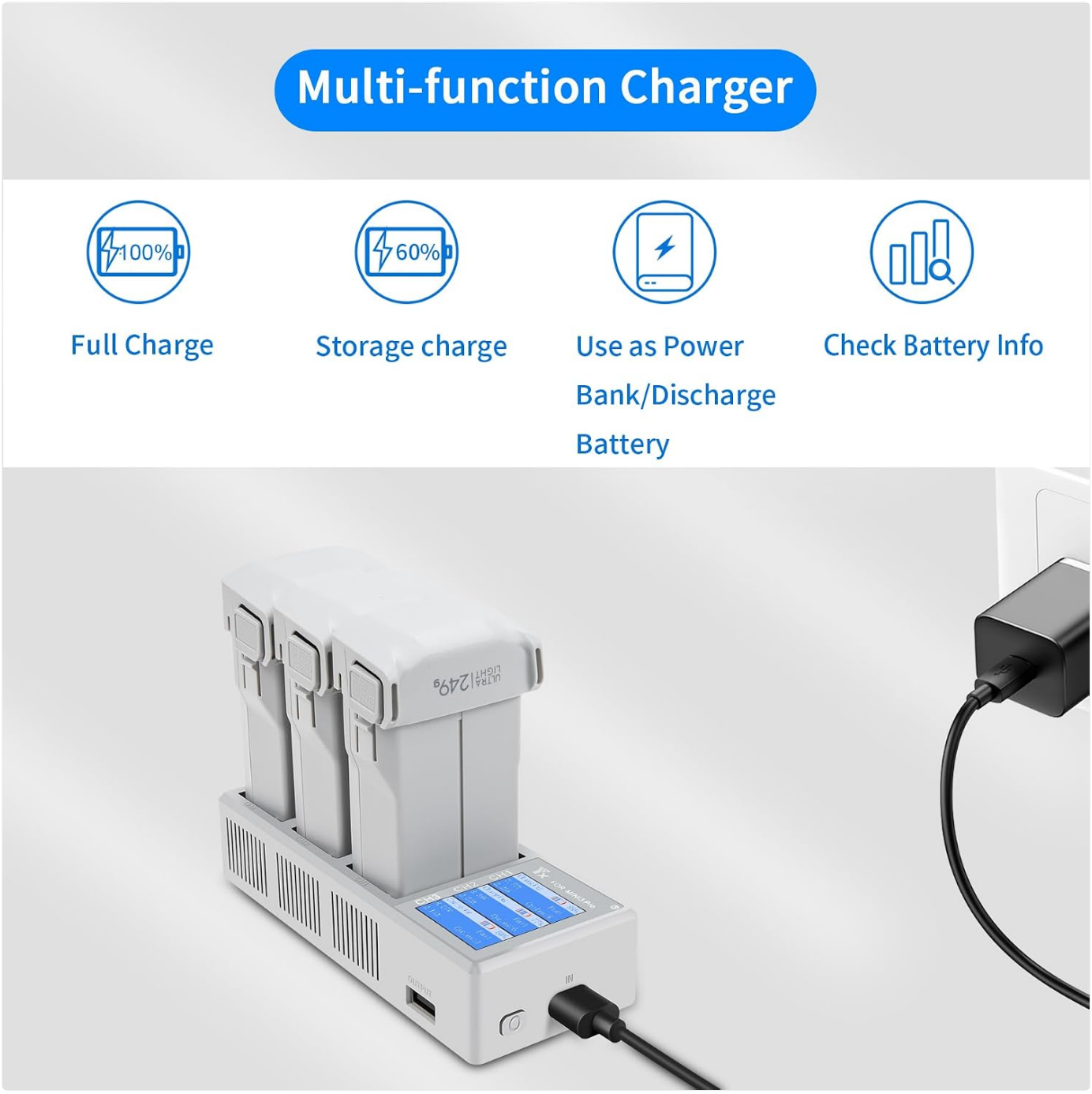


Image: Visual representation of the charger's four key functions.

3.1. Full Charge Mode

This mode charges your drone batteries to 100% capacity, preparing them for immediate use. The charger supports simultaneous charging of up to three batteries when connected to a power delivery (PD) adapter of 65W or higher.

3.2. Storage Charge Mode

For long-term battery health, this mode charges batteries with less than 60% capacity to 60-65%. This is the optimal level for extended storage, preventing degradation. If a battery's charge level is already above 60%, it will not be charged in this mode.

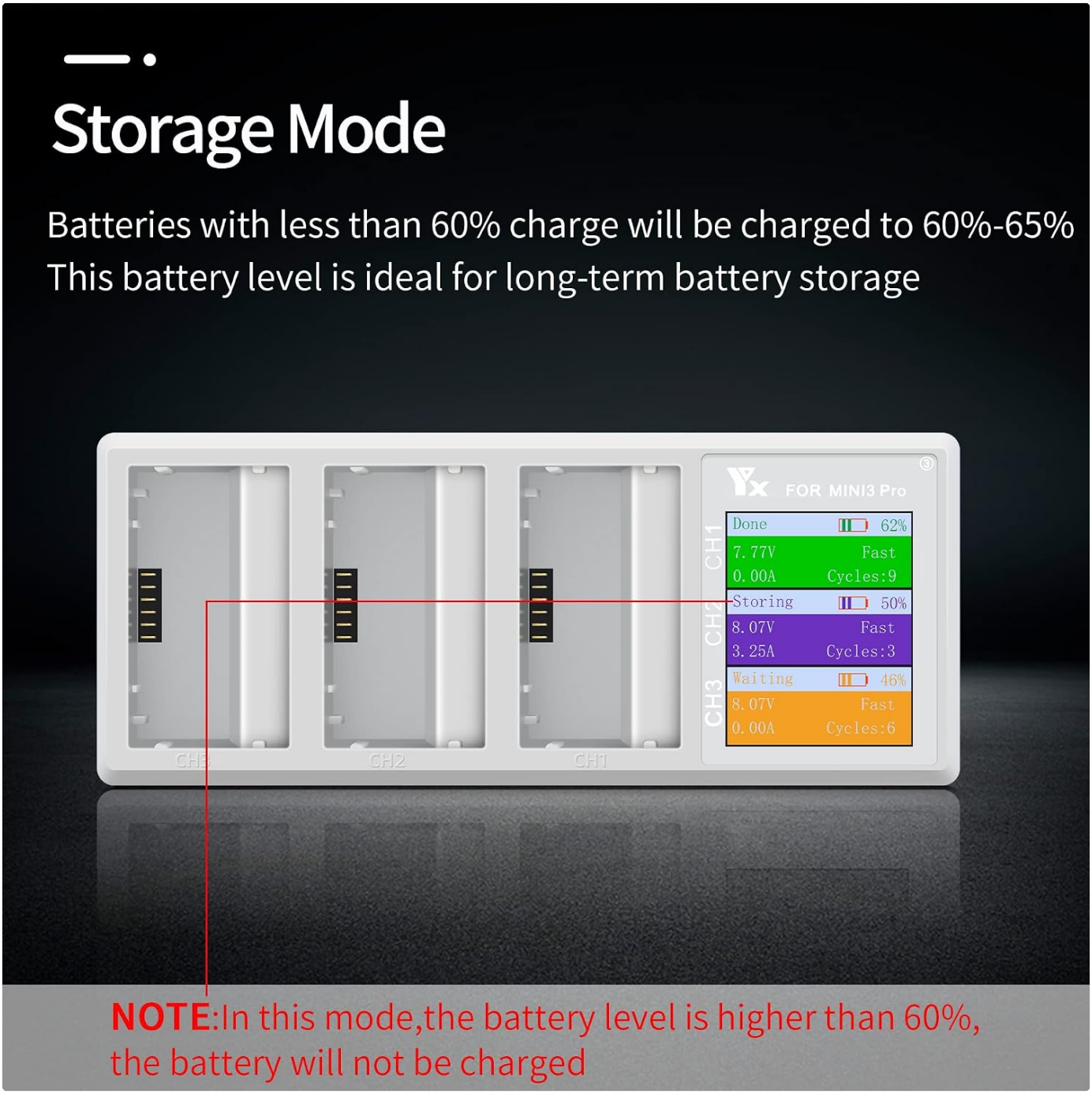


Image: The charger's LCD screen indicating batteries are being charged to the optimal storage level of 60-65%.

3.3. Discharge Battery (Power Bank Function)

Utilize your DJI Mini 3/4/5 batteries as a power bank. Insert a charged drone battery into the charger, then connect your remote controller or other USB devices to the charger's USB output port to charge them. This function also serves to discharge the drone battery.



Image: The charger acting as a power bank, charging a smartphone from an inserted drone battery.

3.4. Check Battery Level

Quickly check the charge level and other vital information of your DJI Mini 4 Pro/3 batteries without needing to insert them into the drone. The LCD display provides real-time data.

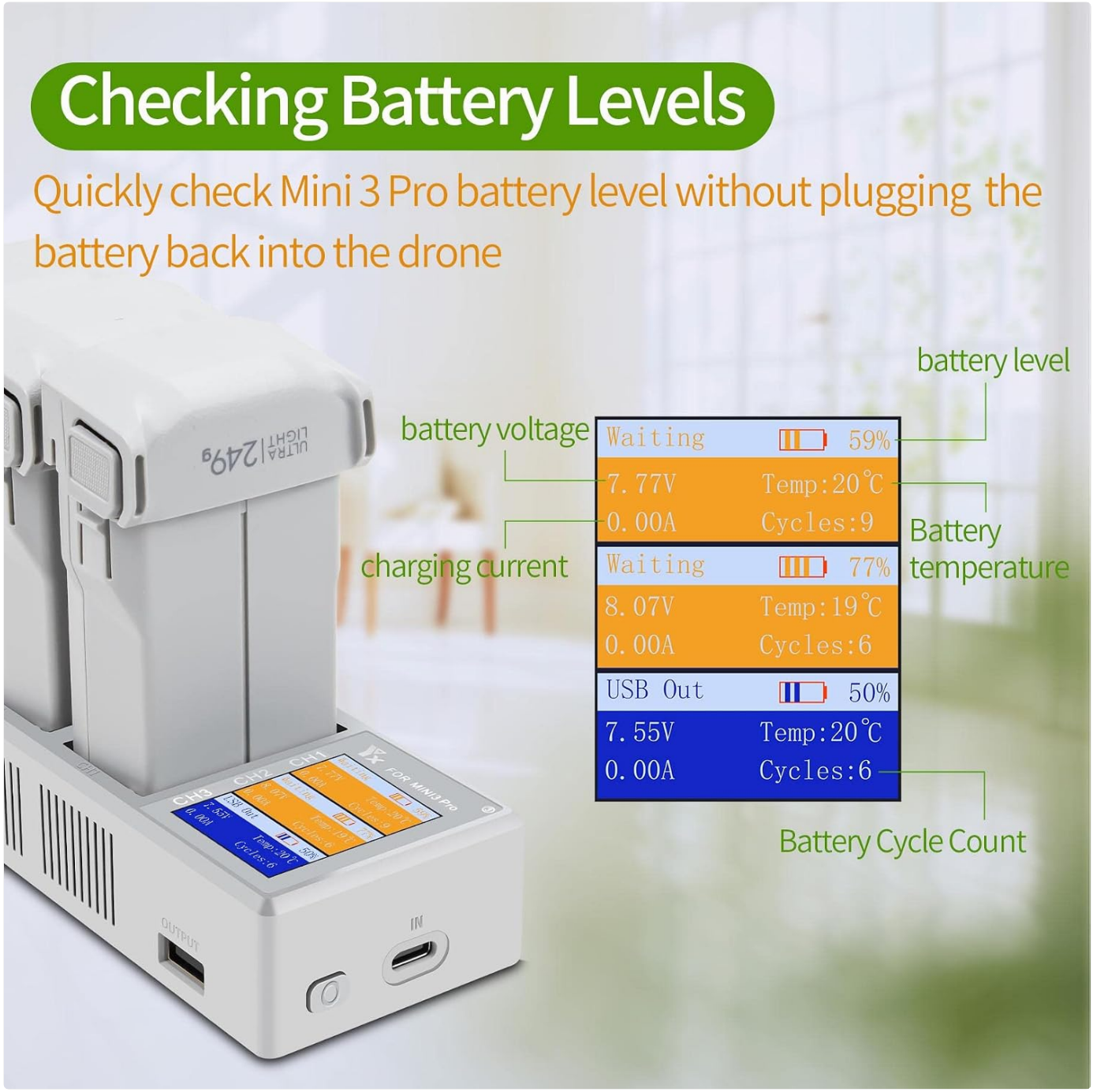


Image: The LCD screen showing detailed battery status, including charge percentage, voltage, temperature, and cycle count.

3.5. LCD Display

The integrated LCD display provides real-time information on each charging port, including charging status, current, battery voltage, battery level, battery temperature, and battery cycle count. This allows for easy monitoring of your batteries.

4. Setup

1. **Connect Power:** Connect the charger to a suitable USB power adapter (not included) using one of the provided USB-C cables. For optimal performance, especially for simultaneous charging, use a Power Delivery (PD) adapter of 65W or higher.
2. **Insert Batteries:** Carefully insert your DJI Mini 5 Pro, Mini 4 Pro, Mini 3 Series, or Mini 3 Pro drone batteries into the designated battery slots on the charger. Ensure they are securely seated.
3. **Monitor Display:** The LCD screen will activate and display the status of the inserted batteries.

5. Operating Instructions

5.1. Charging Modes

The charger supports two primary charging modes, selectable via the function button:

- **100% Charging Mode:** Charges batteries to full capacity.
- **60% Storage Charging Mode:** Charges batteries to 60-65% for long-term storage.

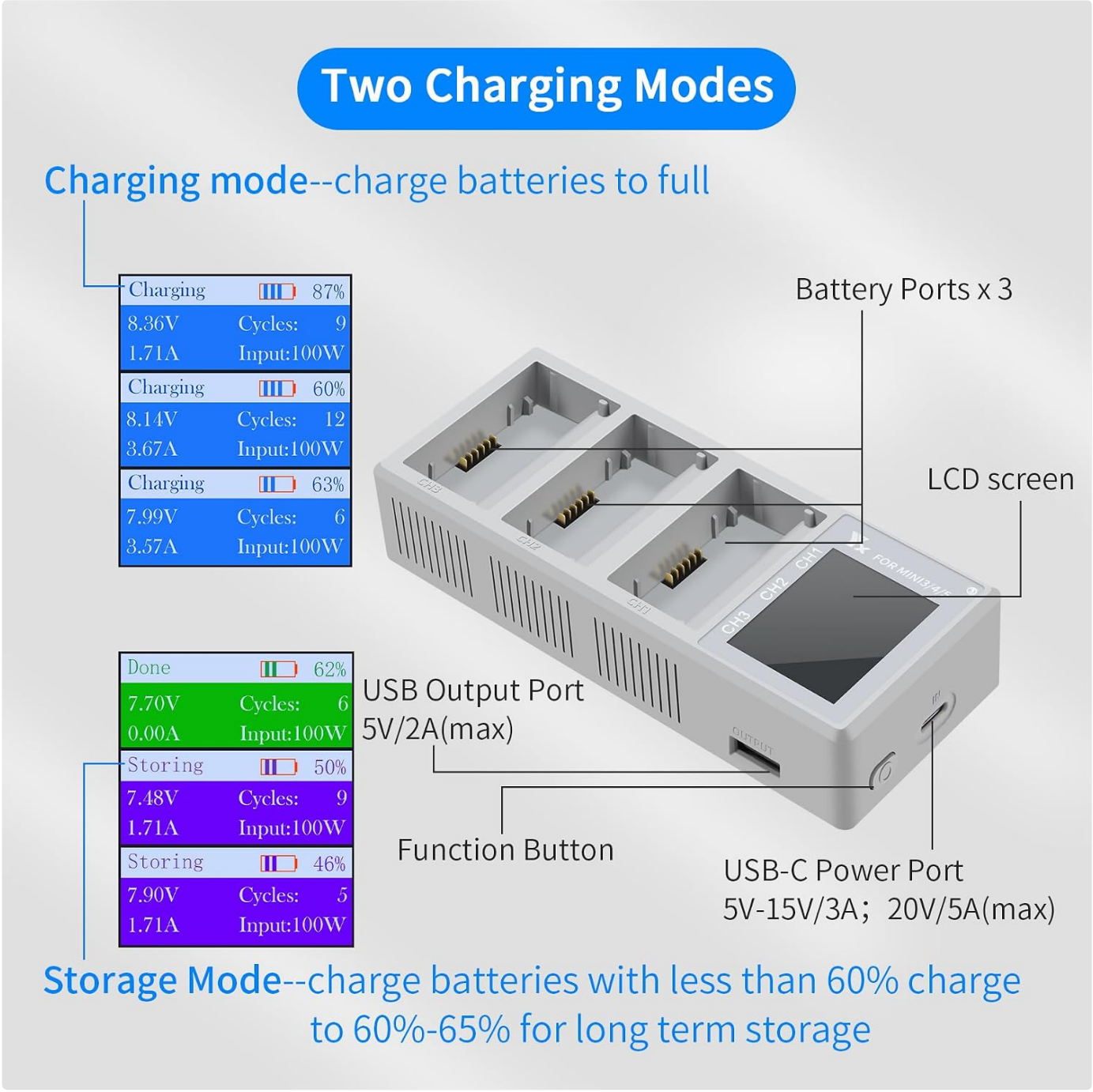


Image: The charger's layout, highlighting the battery ports, LCD screen, USB output, USB-C power port, and function button, along with a description of the two charging modes.

5.2. Charging Rules Based on Input Power

The charging behavior adapts to the power output of your connected USB power adapter:

- **Input ≥ PD 65W:** All three batteries are charged simultaneously (parallel charging) at a maximum current of 2.5A per battery.

- **PD 65W > Input ≥ PD 45W:** Two batteries with the highest power levels are charged simultaneously at a maximum current of 3.5A per battery.
- **Input < PD 45W:** Batteries are charged one by one. The battery with the highest power level will be charged first at a maximum current of 3.5A.



Image: Visual explanation of simultaneous charging for three batteries with a PD 65W+ input.



Image: Visual explanation of simultaneous charging for two batteries with a PD 45W to 65W input.

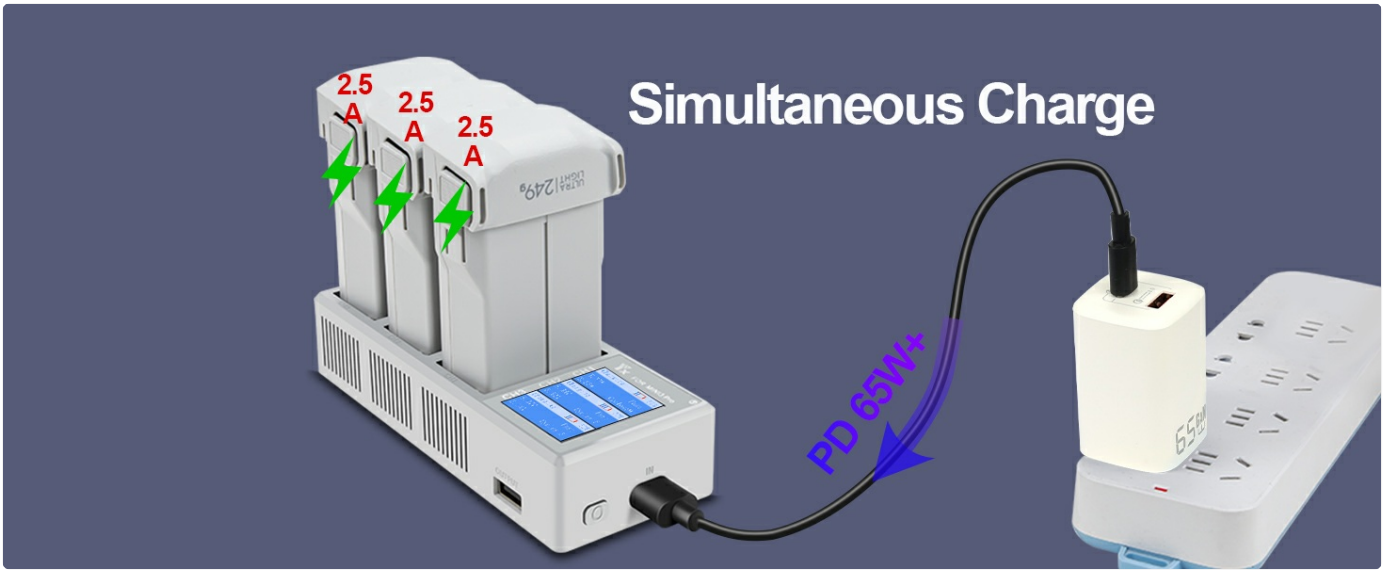


Image: Visual explanation of sequential charging for batteries with less than PD 45W input.

5.3. Estimated Charging Times (with PD ≥ 65W)

- Mini 3 Standard Battery: Approximately 60 minutes for three batteries.
- Mini 4 Pro/3 Battery Plus: Approximately 80 minutes for three batteries.
- Mini 4 Pro Standard Battery: Approximately 65 minutes for three batteries.

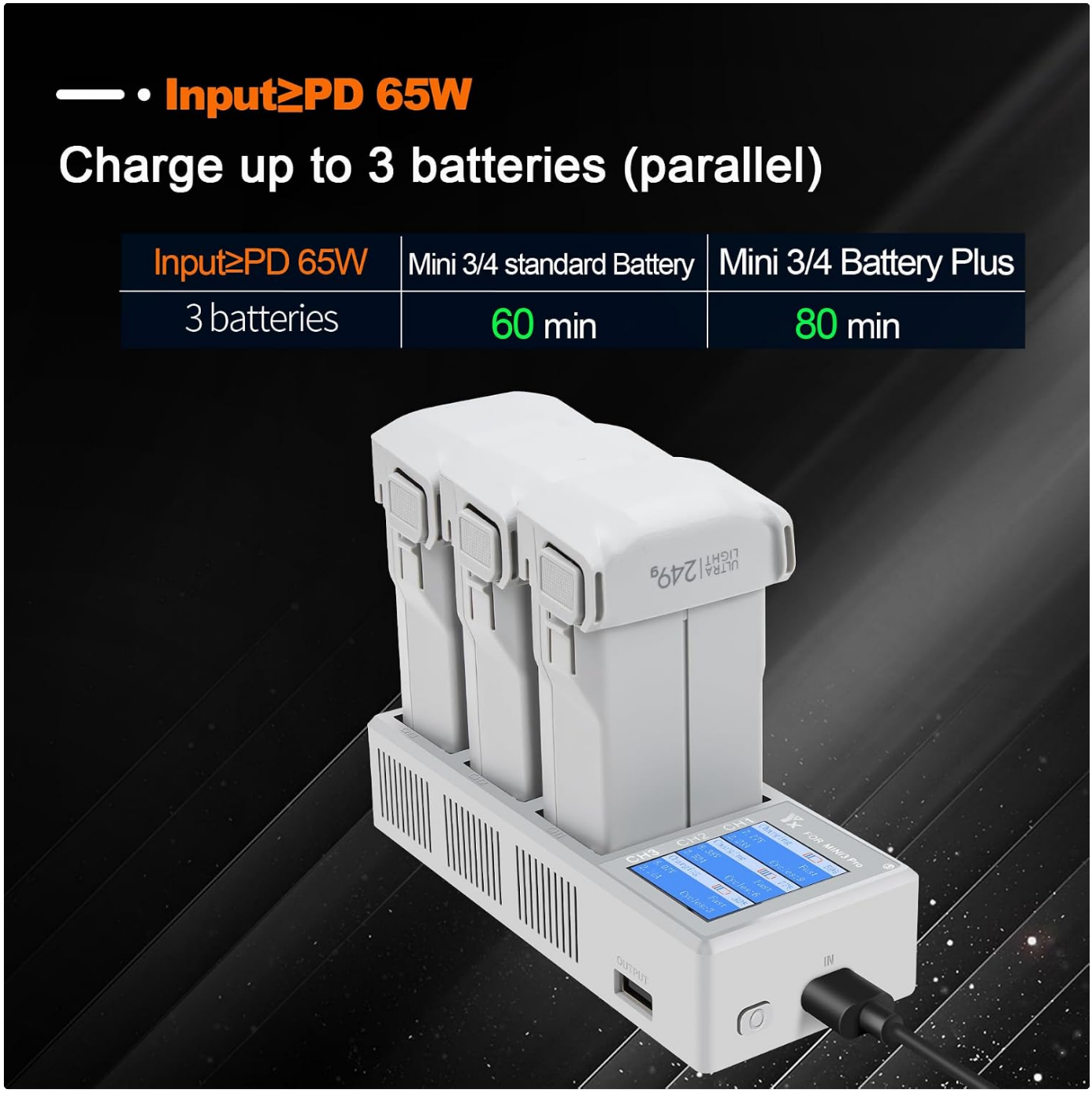


Image: A table detailing the approximate charging durations for different DJI Mini batteries when using a 65W or higher power input.

5.4. Using as a Power Bank

To use the charger as a power bank, ensure at least one charged drone battery is inserted. Connect your USB device (e.g., remote controller, smartphone) to the USB output port on the charger. The drone battery will then supply power to your device.

6. Maintenance

- Keep the charger clean and dry. Avoid exposure to moisture or extreme temperatures.
- Do not attempt to disassemble or modify the charger.
- Store the charger in a cool, dry place when not in use.
- Regularly inspect cables for any signs of damage.

7. Troubleshooting

- **Charger not powering on:** Ensure the USB power adapter is functioning correctly and the USB-C cable is securely connected to both the charger and the power source.
- **Batteries not charging:** Verify that batteries are correctly inserted. Check the input power source meets the minimum requirements for charging (refer to Section 5.2). If in storage mode, batteries above 60% will not charge.
- **Slow charging:** Ensure your power adapter provides sufficient wattage (PD 65W or higher for fastest simultaneous charging). Lower wattage adapters will result in slower or sequential charging.
- **LCD display issues:** If the display is blank or shows errors, try disconnecting and reconnecting the power. If the issue persists, contact customer support.

8. Specifications

Brand	LYONGTECH
Product Dimensions (D x W x H)	5.35" x 2.17" x 1.14" (13.6cm x 5.5cm x 2.9cm)
Item Weight	149 Grams
Input Voltage	5V/9V/12V/15V/20V --3A
Output (Battery Ports)	8.5V/8.6V-2.5A (MAX) x3 (simultaneous) 8.5V/8.6V-3.5A (MAX) x2 (dual)
USB Output	5V/2.0A (MAX)
Compatibility	DJI Mini 5 Pro, Mini 4 Pro, Mini 3 Series, Mini 3 Pro Batteries

9. Warranty and Support

This LYONGTECH product comes with a 1-year warranty against manufacturer defects. For technical support, warranty claims, or any inquiries, please contact LYONGTECH customer service through the retailer's platform or the official brand website.

10. Product Video

Your browser does not support the video tag.

Video: An official product video demonstrating the multifunctionality of the LYONGTECH LCD charger for DJI Mini 4 Pro and Mini 3 series batteries, including checking battery levels, charging, and using it as a power bank.

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