

DJI 43235-193873

DJI TB55 Intelligent Flight Battery User Manual

Model: 43235-193873

For Matrice 200/210/210 RTK Series Drones

1. PRODUCT OVERVIEW

The DJI TB55 Intelligent Flight Battery is a high-capacity lithium polymer (LiPo) battery designed specifically for the DJI Matrice 200, Matrice 210, and Matrice 210 RTK series drones. It provides reliable power for extended flight times and features intelligent management systems for safe and efficient operation.



Figure 1.1: Angled view of the DJI TB55 Intelligent Flight Battery, showcasing its robust black casing and connection port.

This battery is engineered to integrate seamlessly with the Matrice series, ensuring optimal performance and safety during flight operations. It is crucial to use only genuine DJI TB55 batteries with compatible Matrice drones.

2. SAFETY GUIDELINES

Adherence to the following safety guidelines is essential to prevent damage to the battery, drone, and to ensure personal safety. Failure to follow these instructions may result in fire, injury, or property damage.

- Do not expose the battery to liquids. Do not leave the battery outdoors or near heat sources.
- Do not use non-DJI approved chargers. Always use the official DJI charger designed for this battery.
- Do not use or charge swollen, leaking, or damaged batteries.
- Do not attempt to disassemble or modify the battery.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep batteries out of reach of children and pets.
- Dispose of batteries according to local regulations. Do not dispose of batteries in general waste.

3. SETUP

3.1 Initial Charging

Before first use, fully charge the TB55 Intelligent Flight Battery using a compatible DJI battery charger. The charging temperature range is 41° to 104° F (5° to 40° C).

1. Connect the battery to the DJI charging hub or directly to the charger.
2. Plug the charger into a power outlet.
3. Monitor the battery's charge indicators. The LEDs will illuminate progressively during charging and turn off when fully charged.



Figure 3.1: Top view of the TB55 battery, highlighting the power button and LED charge indicators. Press the power button once to check the current charge level.

3.2 Battery Installation

The TB55 battery is designed for specific installation into the DJI Matrice 200/210/210 RTK series drones. Refer to your drone's user manual for detailed installation instructions.

- Ensure the drone is powered off before installing or removing batteries.

- Align the battery with the battery compartment on the drone.
- Gently push the battery into place until it clicks securely.
- Verify that both batteries (if applicable for your drone model) are properly seated before flight.

4. OPERATING

4.1 Powering On/Off

- **To Power On:** Press the power button once, then press and hold for two seconds. The battery indicators will light up.
- **To Power Off:** Press the power button once, then press and hold for two seconds. The battery indicators will turn off.

4.2 Checking Battery Level

Press the power button once to check the current battery level. The LED indicators will show the remaining charge.

Battery Level Indicators

LEDs Lit	Battery Level
4 LEDs	75-100%
3 LEDs	50-75%
2 LEDs	25-50%
1 LED	0-25%

4.3 Usage in Drone

The TB55 battery is designed to provide stable power to your Matrice series drone. Always ensure the battery is fully charged and securely installed before each flight. Monitor battery levels during flight using the drone's flight control app.



Figure 4.1: Side profile of the TB55 battery, showing its compact design for drone integration.

5. MAINTENANCE

5.1 Storage

Proper storage is crucial for extending battery life and ensuring safety.

- For short-term storage (less than 3 months), store the battery at -4° to 113° F (-20° to 45° C).
- For long-term storage (more than 3 months), store the battery at 71.6° to 82.4° F (22° to 28° C).
- Store batteries with a charge level between 50% and 60%. Fully charged or fully discharged batteries can degrade faster.
- Keep batteries in a dry, well-ventilated area, away from direct sunlight and flammable materials.

5.2 Cleaning

Clean the battery surface with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure the connection terminals are clean and free of debris.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your TB55 Intelligent Flight Battery.

Common Issues and Solutions

Problem	Possible Cause	Solution
Battery not charging	Charger not connected, battery too hot/cold, battery fault.	Ensure charger is properly connected. Allow battery to reach optimal charging temperature (41° to 104° F). If issue persists, contact DJI Support.
Battery indicators not lighting up	Battery fully discharged, internal fault.	Attempt to charge the battery. If no response, the battery may be deeply discharged or faulty. Contact DJI Support.
Drone not powering on with battery installed	Battery not fully inserted, battery fault, drone issue.	Ensure battery is securely clicked into place. Test with another known good battery if available. Refer to drone's manual for power-on sequence.
Reduced flight time	Battery aging, improper charging/storage, extreme temperatures.	Ensure proper charging and storage practices. Battery capacity naturally degrades over time. Consider replacing older batteries.



Figure 6.1: Bottom view of the TB55 battery, illustrating the main connection port and ventilation areas. Keep these areas clear of obstructions.

7. SPECIFICATIONS

Detailed technical specifications for the DJI TB55 Intelligent Flight Battery:

Model: TB55

Capacity: 7660 mAh

Voltage: 22.8V

Battery Type: LiPo 6S

Energy: 176.93 Wh

Net Weight: Approx. 885g (2.22 pounds)

Product Dimensions: 6.5 x 5 x 3 inches

Operating Temperature: -4° to 113° F (-20° to 45° C)

Storage Temperature (Less than 3 months): -4° to 113° F (-20° to 45° C)

Storage Temperature (More than 3 months): 71.6° to 82.4° F (22° to 28° C)

Charging Temperature: 41° to 104° F (5° to 40° C)

Max Charging Power: 180 W

Recommended Uses: Drone (DJI Matrice 200/210/210 RTK series)

8. WARRANTY AND SUPPORT

You can find more information and support resources on the official DJI website: www.dji.com/support

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Related Documents

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