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DJI TB65

DJI TB65 Intelligent Flight Battery User Manual

MODEL: TB65 FOR MATRICE 350 RTK DRONE

1. Introduction

This manual provides essential instructions for the safe and efficient use of the DJI TB65 Intelligent Flight Battery, designed for the Matrice 350 RTK drone. Please read this manual thoroughly before using the battery to ensure proper operation and to prevent damage or injury. Retain this manual for future reference.

The DJI TB65 Intelligent Flight Battery is a high-capacity lithium-ion battery engineered to provide extended flight times and reliable power for professional drone operations. Its intelligent management system monitors battery status and ensures optimal performance.

2. Product Overview

The TB65 Intelligent Flight Battery features a robust design and advanced technology to support demanding drone applications. Key features include:

- **Extended Flight Time:** Substantial 5880mAh capacity for prolonged aerial operations.
- **Optimized Power Output:** Consistent 44.76V output for peak performance and stability.
- **Robust Energy Storage:** 263.2Wh lithium-ion battery for complex tasks.
- **Seamless Compatibility:** Specifically designed for the DJI Matrice 350 RTK.
- **Reliable Power Solution:** Balances power and portability, weighing approximately 1.35kg (2.97 lbs).



Figure 2.1: Front view of the DJI TB65 Intelligent Flight Battery, showing its robust casing and ventilation grilles.



Figure 2.2: Side view of the DJI TB65 Intelligent Flight Battery, highlighting the textured surface and warning labels.



Figure 2.3: Another side view of the DJI TB65 Intelligent Flight Battery, showing additional details of its construction.

3. Setup

3.1 Initial Charging

1. Ensure the battery is at room temperature (20°C to 25°C / 68°F to 77°F) before charging.

2. Connect the TB65 Intelligent Flight Battery to a compatible DJI battery charging station (sold separately).
3. Plug the charging station into a power outlet.
4. Monitor the charging indicator lights on the battery or charging station. The battery is fully charged when all indicator lights are solid green or as indicated by the charging station's display.

3.2 Battery Installation

1. Ensure the Matrice 350 RTK drone is powered off.
2. Locate the battery compartments on the drone.
3. Align the TB65 battery with the compartment and gently slide it in until it clicks securely into place.
Ensure both batteries (if using two) are properly seated.
4. Verify that the battery release latches are fully engaged.

4. Operating the Battery

4.1 Checking Battery Level

To check the battery level, briefly press the power button on the battery. The LED indicators will illuminate to show the current charge level. Refer to the drone's flight controller or DJI Pilot app for a more precise battery percentage.

4.2 Powering On/Off

- **Power On:** Press the power button once, then press and hold it for two seconds.
- **Power Off:** Press the power button once, then press and hold it for two seconds.

4.3 Flight Considerations

- Always ensure batteries are fully charged before each flight.
- Monitor battery voltage and remaining capacity during flight using the drone's remote controller or app.
- Avoid flying in extreme temperatures, as this can affect battery performance and lifespan.
- Land the drone immediately if a low battery warning is issued.

5. Maintenance

5.1 Storage

- Store the battery in a cool, dry place away from direct sunlight and heat sources.
- For long-term storage, discharge the battery to approximately 50-60% of its capacity. The intelligent battery will automatically discharge to this level if left unused for an extended period.
- Avoid storing fully charged or fully discharged batteries for prolonged periods.

5.2 Cleaning

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

5.3 Battery Health

- Regularly inspect the battery for any signs of damage, swelling, or leakage. Discontinue use immediately if any damage is observed.

- Avoid puncturing or dropping the battery.
- Follow recommended charging cycles and avoid overcharging or deep discharging.

6. Troubleshooting

Issue	Possible Cause	Solution
Battery not charging	Charger not connected, faulty charger, battery too hot/cold, damaged battery.	Ensure charger is properly connected. Try a different power outlet or charger. Allow battery to reach room temperature. Inspect battery for damage; if damaged, discontinue use.
Short flight time	Battery degradation, extreme temperatures, heavy payload, improper charging.	Check battery health in the DJI app. Operate within recommended temperature ranges. Reduce payload if possible. Ensure full and proper charging cycles.
Battery not powering on drone	Battery not fully charged, improper installation, battery fault.	Ensure battery is fully charged. Reinstall battery securely. If issue persists, contact DJI support.

7. Specifications

Feature	Detail
Model	TB65
Battery Type	Lithium Polymer (LiPo)
Capacity	5880 mAh
Voltage	44.76 V
Energy	263.2 Wh
Weight	Approx. 1.35 kg (2.97 lbs)
Operating Temperature	Typically -20°C to 50°C (-4°F to 122°F)
Charging Temperature	Typically 5°C to 40°C (41°F to 104°F)

8. Safety Guidelines

Failure to follow these safety guidelines may result in fire, injury, or property damage. By using this product, you signify that you have read and understood this manual and agree to abide by all instructions and warnings herein.

- Do not expose the battery to fire or high temperatures.
- Do not immerse the battery in water or other liquids.
- Do not use or charge swollen, leaking, or damaged batteries.
- Keep the battery out of reach of children and pets.
- Only use DJI-approved chargers and charging stations.

- Do not short-circuit the battery terminals.
- Dispose of batteries according to local regulations.

9. Warranty and Support

DJI products are covered by a limited warranty. For detailed warranty information, please refer to the official DJI website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or service requests, please visit the official DJI Support page:

Visit DJI Support

You can also find additional resources, FAQs, and contact information on their website.

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Related Documents - TB65

 <p>MATRICE 350 RTK Quick Start Guide Setup, Operation, and Specifications</p>	<p>DJI Matrice 350 RTK Quick Start Guide: Setup, Operation, and Specifications</p> <p>Comprehensive quick start guide for the DJI Matrice 350 RTK industrial drone. Learn about aircraft setup, remote controller operation, battery charging, flight procedures, pre-flight checks, and technical specifications.</p>
 <p>MATRICE 350 RTK User Manual 2020.05</p>	<p>DJI Matrice 350 RTK User Manual: Comprehensive Guide to Industrial Drone Operations</p> <p>The official user manual for the DJI Matrice 350 RTK industrial drone. Learn about its features, flight safety, operation, setup, DJI Pilot 2 app, and maintenance for professional aerial applications.</p>
 <p>MATRICE 350 RTK User Manual 2020.05</p>	<p>DJI Matrice 350 RTK User Manual: Operation, Features, and Safety Guide</p> <p>Comprehensive user manual for the DJI Matrice 350 RTK industrial drone, detailing its advanced flight control system, six-directional sensing, night-vision FPV camera, RTK positioning, and operational capabilities for surveying, mapping, and aerial inspection. Includes setup, safety, and feature highlights.</p>