

Turnigy 750

Turnigy Graphene 750mAh 3S 65C Lipo Pack Instruction Manual

Model: 750mAh 3S 65C Lipo Pack

[Introduction](#)[Safety Information](#)[Setup](#)[Operating](#)[Maintenance](#)[Troubleshooting](#)[Specifications](#)[Warranty &](#)[Support](#)

1. INTRODUCTION

Thank you for choosing the Turnigy Graphene 750mAh 3S 65C Lipo Pack. This high-performance Lithium Polymer (LiPo) battery is designed for demanding applications, offering superior power density, stable voltage, and extended cycle life. This manual provides essential information for the safe and efficient use, charging, and maintenance of your battery. Please read it thoroughly before first use.

2. SAFETY INFORMATION

Lithium Polymer batteries are powerful and require careful handling. Failure to follow these safety guidelines can result in fire, personal injury, and property damage.

- **Charging:** Always use a LiPo compatible charger. Never charge unattended. Charge in a fire-safe area, away from flammable materials, and preferably inside a LiPo-safe bag or container. Do not exceed the recommended charge rate (typically 1C, unless specified otherwise).
- **Discharging:** Do not over-discharge the battery. The voltage per cell should not drop below 3.0V under load. Over-discharging can permanently damage the battery and lead to swelling.
- **Storage:** Store LiPo batteries at room temperature (15-25°C or 59-77°F) and at a storage voltage of approximately 3.8V per cell. Do not store fully charged or fully discharged for extended periods.
- **Physical Damage:** Do not puncture, crush, or disassemble the battery. If the battery becomes damaged, swollen, or shows signs of leakage, discontinue use immediately and dispose of it safely.
- **Temperature:** Avoid exposing the battery to extreme temperatures (above 60°C/140°F or below 0°C/32°F). Do not leave batteries in direct sunlight or in a hot vehicle.
- **Disposal:** Dispose of damaged or end-of-life LiPo batteries responsibly according to local regulations. Fully

discharge the battery before disposal.

3. SETUP

Before first use, inspect your Turnigy Graphene LiPo pack for any signs of damage, such as swelling, punctures, or frayed wires. If any damage is observed, do not use the battery and contact your supplier.

- Initial Charge:** It is recommended to fully charge the battery before its first use. Use a compatible LiPo balance charger and set it to the correct cell count (3S) and capacity (750mAh).
- Balance Charging:** Always use the balance lead (JST-XH) in conjunction with the main discharge lead (XT-60) when charging to ensure all cells are balanced to the same voltage. This maximizes battery life and safety.
- Connection:** Ensure the XT-60 discharge plug is securely connected to your device (e.g., RC model, drone). Verify polarity before connecting.

4. OPERATING INSTRUCTIONS

4.1 Charging

- Connect the balance lead (JST-XH) and the main discharge lead (XT-60) to your LiPo balance charger.
- Set your charger to "LiPo Balance Charge" mode.
- Confirm the cell count is set to 3S (11.1V nominal) and the charge current is set to 0.75A (1C for a 750mAh battery).
- Initiate the charging process. Monitor the battery and charger throughout the entire charging cycle.
- Disconnect the battery once charging is complete and the charger indicates a full charge (typically 4.2V per cell).

4.2 Discharging

- Connect the XT-60 discharge plug to your electronic speed controller (ESC) or device.
- Ensure your device has a low-voltage cutoff (LVC) set appropriately for 3S LiPo batteries (e.g., 3.2V per cell minimum).
- Avoid continuous high current draw that exceeds the battery's maximum burst discharge rate for extended periods.
- Stop using the battery immediately if you notice a significant drop in power or if the LVC is triggered.

5. MAINTENANCE

- **Regular Inspection:** Periodically inspect the battery for any physical damage, swelling, or signs of overheating.
- **Storage Voltage:** For long-term storage, discharge or charge the battery to a storage voltage of 3.8V per cell (approximately 11.4V for a 3S pack). Most modern LiPo chargers have a "Storage" mode.
- **Temperature Control:** Store batteries in a cool, dry place, away from direct sunlight and heat sources.
- **Connector Care:** Keep the XT-60 and JST-XH connectors clean and free from corrosion.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Battery not charging	Incorrect charger settings, faulty charger, damaged battery leads.	Verify charger settings (LiPo, 3S, 0.75A). Check all connections. Try a different charger if available. If battery is damaged, dispose safely.
Battery swells during charge/discharge	Overcharging, over-discharging, internal damage, excessive current draw.	Immediately discontinue use. This indicates a dangerous condition. Dispose of the battery safely.
Short run time / Low power output	Battery not fully charged, aging battery, high internal resistance, over-discharging.	Ensure full balance charge. Check battery age and cycle count. Avoid over-discharging. Consider replacing the battery if performance significantly degrades.
Battery gets hot during use	Excessive current draw, internal resistance, short circuit.	Reduce load on the battery. Check for short circuits in your device. If overheating persists, discontinue use and dispose safely.

7. SPECIFICATIONS

- Capacity:** 750mAh
- Voltage:** 3S1P / 3 Cell / 11.1V (Nominal)
- Discharge Rate:** 65C Constant / 130C Burst
- Weight:** 84g (including wire, plug & case)
- Dimensions:** 74 x 36 x 18mm (Length x Width x Height)
- Balance Plug:** JST-XH
- Discharge Plug:** XT-60
- Battery Cell Composition:** Lithium Polymer (Graphene)
- Reusability:** Rechargeable

8. WARRANTY & SUPPORT

Turnigy products are manufactured to high standards. For specific warranty information, please refer to the terms and conditions provided at the point of purchase or visit the official Turnigy website. If you encounter any issues or require technical assistance, please contact your retailer or Turnigy customer support with your purchase details.

Note: Damage resulting from improper use, overcharging, over-discharging, physical impact, or unauthorized modification is typically not covered under warranty. Always follow the safety and operating instructions provided in this manual.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question