

## RoaringTop B076PRB9CL

# RoaringTop LiPo Battery Pack User Manual

Model: B076PRB9CL | Brand: RoaringTop

## INTRODUCTION

Thank you for choosing the RoaringTop LiPo Battery Pack 35C 2200mAh 3S 11.1V with T-Plug. This high-performance lithium polymer battery is designed for various RC applications, including airplanes, helicopters, cars, trucks, and boats. This manual provides essential information on the safe handling, setup, operation, and maintenance of your battery to ensure optimal performance and longevity.

## SAFETY INSTRUCTIONS

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

- **Charging:** Always use a LiPo compatible charger. Never charge unattended. Charge on a non-flammable surface away from flammable materials. Do not charge a damaged or swollen battery.
- **Discharging:** Do not over-discharge the battery. Stop using the battery if you notice a significant drop in power.
- **Storage:** Store LiPo batteries in a cool, dry place, away from direct sunlight and extreme temperatures. Store at a "storage voltage" (typically 3.8V-3.85V per cell). Use a LiPo safe bag or container.
- **Handling:** Do not puncture, crush, or disassemble the battery. Avoid short-circuiting the terminals. Keep away from children and pets.
- **Damage:** If the battery becomes damaged, swollen, or leaks, immediately place it in a fireproof container and dispose of it properly according to local regulations.
- **Temperature:** Do not expose the battery to temperatures above 60°C (140°F) or below 0°C (32°F).

## PRODUCT OVERVIEW

The RoaringTop LiPo battery is engineered with premium-grade materials from Japan, featuring patented electrolytes and ultrasonic welding for low resistance, high reliability, and a lightweight design. It offers high quality consistency, excellent power density (up to 230Wh/kg), and a longer cycle life. The battery maintains ultra-high voltage under load, exhibits a flat discharge curve, and performs exceptionally well at low temperatures and high

discharge rates.



**Figure 1:** RoaringTop 2200mAh 3S 11.1V LiPo Battery Pack. This image displays the overall appearance of the battery pack, highlighting its compact design and T-Plug connector.

## SPECIFICATIONS

Capacity	2200 mAh
Voltage	3S / 3 Cell / 11.1 V
Discharge Rate	35C
Weight (including wire, plug & case)	174 g
Dimensions (H x W x L)	24.5 x 35 x 101 mm (0.96 x 1.38 x 3.98 inches)
Balance Plug	JST-XH
Discharge Plug	T-Plug
Battery Cell Composition	Lithium Polymer



**Figure 2:** Detailed specifications and dimensions of the RoaringTop LiPo battery. This image illustrates the battery's physical measurements and highlights its JST-XHR balancer connector and T-Plug discharge connector.

## SETUP

- Compatibility Check:** Ensure your RC device (airplane, helicopter, car, truck, boat, drone, FPV) is compatible with a 3S 11.1V LiPo battery and has a T-Plug connector. Verify that the battery dimensions fit your device's battery compartment.
- Initial Charge:** Before first use, fully charge the battery using a dedicated LiPo balance charger. Refer to the charger's manual for specific instructions. Always balance charge to ensure cell voltage consistency.
- Connection:** Connect the T-Plug discharge connector of the battery to the corresponding connector on your RC device's Electronic Speed Controller (ESC). Connect the JST-XH balance plug to your charger's balance port during charging.
- Secure Placement:** Secure the battery firmly within your RC device's battery compartment using straps or Velcro to prevent movement during operation.

## OPERATING

This LiPo battery is suitable for a wide range of RC applications. Its 35C discharge rate provides ample power for demanding maneuvers and extended run times.

- **Usage:** Connect the battery to your RC model's ESC. Power on your transmitter, then your RC model.
- **Discharge Limit:** Do not discharge the battery below 3.0V per cell (9.0V for a 3S pack) to prevent irreversible damage. Most ESCs have a low voltage cutoff (LVC) feature; ensure it is set correctly for LiPo batteries.

- **Temperature During Use:** Monitor battery temperature during operation. If the battery becomes excessively hot (too hot to touch comfortably), stop use immediately and allow it to cool before recharging or further use.
- **Recommended Applications:** Compatible with RC airplanes (e.g., 800MM Warbirds, EPP 3D plane), small helis, QAV180/210, DJI Phantom Quadcopter, DJI Phantom FC40 Spare, Walkera E22, Blade 450 3D helicopter, Mini Shredder 200, Indy250 plus mojo 280, Qav250, Vortex, and Emax nighthawk 250.



**Figure 3:** Examples of RC vehicles compatible with the RoaringTop LiPo battery. This image showcases various applications including RC airplanes, drones, and quadcopters.

## MAINTENANCE

- **Charging:** Always balance charge your LiPo battery. Do not overcharge. Disconnect the battery from the charger once charging is complete.
- **Storage:** For long-term storage, charge or discharge the battery to its storage voltage (3.8V-3.85V per cell). Store in a cool, dry place, ideally in a fireproof LiPo bag or container.
- **Inspection:** Regularly inspect the battery for any signs of damage, swelling, or punctures. Check connectors for wear or corrosion.
- **Cleaning:** Keep the battery and its connectors clean and free from dirt or debris.

## TROUBLESHOOTING

- **Battery Not Charging:**
  - Ensure the charger is properly connected and powered.
  - Verify the balance plug and discharge plug are correctly inserted.
  - Check if the charger is set to the correct battery type (LiPo) and cell count (3S).
  - Inspect the battery for physical damage or swelling. If damaged, do not attempt to charge.

- **Short Run Time / Low Power:**

- Ensure the battery is fully charged before use.
- Check for proper low voltage cutoff (LVC) settings on your ESC.
- Battery may be aging or damaged. Monitor cell voltages during discharge.
- Ensure the battery's C-rating (35C) is sufficient for your application's power demands.

- **Battery Swelling:**

- Swelling indicates internal damage, often due to overcharging, over-discharging, or physical impact.
- Immediately discontinue use and charging. Place the battery in a fireproof container.
- Dispose of the swollen battery safely according to local regulations. Do not attempt to use or repair.

## **WARRANTY AND SUPPORT**

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For specific warranty information and customer support regarding your RoaringTop LiPo Battery Pack, please refer to the documentation provided at the time of purchase or contact the seller directly.

You can also visit the official RoaringTop store on Amazon for more information and contact options: [RoaringTop Store](#).