

ProTek R/C Lithium Polymer (Li-Poly) Battery User Manual

Warning: You must read this instruction manual and understand it before starting to use this product! Improper use or improper charging may cause explosion or fire.

Thank you for purchasing a **ProTek R/C** Lithium Polymer (Li-Poly) battery! Li-Poly battery cells have four times the energy density of NiMH battery cells, which makes Li-Poly batteries much lighter for the same battery capacity as NiMH batteries. Li-Poly batteries also have very low internal resistance, providing more 'punch' than NiMH batteries with less voltage loss.

Care and Handling

- **NEVER** short the Li-Poly battery connectors! Handle all Li-Poly batteries with care. Li-Poly batteries can deliver extremely high currents if shorted and subsequently can cause fire or injury.
- Always store Li-Poly batteries in a secure location where children cannot reach them.
- Store your batteries in a cool, dry place. Do not leave your battery exposed to direct sunlight or temperatures below 32 degrees Fahrenheit (0 degrees Celsius), or above 122 degrees Fahrenheit (50 degrees Celsius).
- For long-term storage, Li-Poly batteries are best stored at 50% charge.

Charging

- **DO NOT** charge the battery on a wooden workbench or on any flammable material.
- **DO NOT** charge the battery in your radio controlled model.
- **DO NOT** charge the battery inside a motor vehicle, or in a vehicles engine compartment.
- **NEVER** allow the voltage to drop below 3.0V per cell.
- Only charge Li-Poly batteries with a charger designed specifically for charging Lithium Polymer batteries. Using other types of chargers may cause explosion or fire.
- Always ensure the correct charging current and cell count for your batteries. Li-Poly batteries may ignite if connected to a charger supplying more than 6V per cell, so it is important to ensure you always verify the correct number of cells on your charger before you start charging your batteries.
- Always charge Li-Poly batteries at or below 1C (or one times the rated capacity of the battery). If the battery is a 2000mAh battery, only charge the battery at current rates up to 2A (2000mAh)! If you charge the batteries over 1C, you risk damaging the battery and shortening the life span. If you charge at extremely high current settings, the battery may ignite and cause a fire. Some batteries are designed to handle a 2C charge rate, so only charge at that rate for batteries designed for it.
- ProTek R/C ships the batteries with a 50% charge. The initial charging time of the battery will be shorter when compared to a fully discharged battery pack.
- Li-Poly batteries do not have a memory effect like NiMH and NiCD batteries. You do not need to fully discharge the battery completely before you recharge it. In fact Li-Poly batteries work best if kept close to peak charge, so charge your batteries whenever you are done with your activities.

Disclaimer and Warranty

All ProTek RC batteries are covered by manufacturer warranty against defects in materials and workmanship for three (3) months after original purchase date. Warranty will not cover batteries that have been modified, disassembled, or otherwise misused according to the included instructions. ProTek R/C is not responsible for bodily injury and/or property damage that may occur from the use of, or caused by, this battery.

Damage Replacement Policy

ProTek RC offers a 50% Damage Replacement program for one (1) year after original purchase date on all batteries that have been damaged due to impact, over-discharging, or improper charging that have not been modified or disassembled. The damaged battery will be replaced by a comparable battery at 50% off of its retail cost.

Warning!

Do not continue to use any battery that expands beyond its normal size!