

# **EcoPower 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 an **EcoPower** 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).
- 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 vehicle's 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 Li-Poly batteries. Using other types of chargers may cause explosion or fire.
- Unless noted, 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.
- EcoPower 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.

## **Disclaimer and Warranty**

All EcoPower batteries are covered by manufacturer warranty against defects in materials and workmanship for 90 days after original purchase date. Warranty will not cover batteries that have been modified, disassembled, or otherwise misused according to the included instructions. EcoPower is not responsible for bodily injury and/or property damage that may occur from the use of, or caused by, this battery.

## **Warning!**

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