

## **LITHIUM POLYMER (LiPO) BATTERY SAFETY SHEET**

**Please be sure to read and follow these instructions carefully.**

This safety sheet provides important information on the handling and use of Lithium Polymer batteries. If you cannot comply with the required safe handling then do not use them.

### **Safe Charging: Lithium Polymer cells have very strict charging requirements.**

- Always charge Lithium Polymer cells or packs with the recommended charger or personal harm and property damage may occur.
- Always use chargers specifically approved for use with your Lithium Polymer packs.
- Always test your charger to assure it is functioning properly.
- Always charge your Lithium Polymer cells on concrete at least 10 feet (3 meters) from any combustible materials. NEVER leave the charger unattended while batteries are connected!
- Always store Lithium Polymer cells or packs in a fireproof container.
- Always have sand or dry fire extinguisher handy in the event of fire.
- Always keep all batteries out of the reach of children and animals.
- Always observe the correct polarity when connecting cells or packs to charger or application.
- Always seek medical attention if electrolyte gets in your eyes (flush with cold water immediately).
- Always scrub with soap and water if electrolyte comes in contact with your skin.

### **Safe Handling:**

- Never charge Lithium Polymer cells or packs unattended.
- Never charge Lithium Polymer beyond factory specifications; this is dangerous and strictly prohibited.
- Never charge Lithium Polymer in your car, home or garage or where other physical damage can occur.
- Never charge Lithium Polymer while in the application as the hot pack may ignite certain materials.
- Never charge Lithium Polymer on flammable materials such as wood, foam or plastic.
- Never extinguish a Lithium Polymer fire with water.
- Never disassemble a Lithium Polymer cell or pack
- Never short circuit Lithium Polymer cells or packs.
- Never use a Lithium Polymer cell or pack that has been damaged.
- Never put them in your pocket, purse, bag, desk drawer, etc.
- Never keep cells or packs in temperatures that exceed 60C/140F.
- Never exceed the factories maximum allowed charge and discharge rates.
- Never combine different cell sizes or capacities together in the same pack

### **Damaged Battery Packs:**

- Before each use totally inspect the cells, wire leads and connections for possible short circuit.
- If there is any doubt completely cut all wires from the pack.
- If any cells are dented or deformed do not use the pack.
- Follow disposal notes below.

### **Disposal Battery Packs:**

- If the Lithium Polymer pack is damaged, immerse it in salt water for two weeks to discharge the battery pack. Use ½ cup of salt per gallon of water. Use a plastic container (not metal) and cold water.
- If the Lithium Polymer pack is not damaged, discharge it to 1V per cell (2S pack = 2V, 3S pack = 3V). You may use a 150 ohm 2W resistor (from Radio Shack or other supplier), or connect it to the device and run it until the discharge voltage is observed.
- Apply tape over all electrical terminals or exposed wires.
- Lithium Polymer batteries are environmentally safe for landfill disposal.

**Always follow all safety directions to prevent accidents or damage to persons or property.**