ElectriFly™

# SAFECHARGE™

## LiPo Battery Charge Bag

## INSTRUCTIONS


This SafeCharge LiPo Charge Bag is intended to help reduce the effects that might occur if a LiPo (lithium-polymer) battery experiences a failure while being charged. If a LiPo battery suffers damage while being charged inside the SafeCharge LiPo Charge bag, the high-temperature material and coating will add a layer of safety to suppress flames from exiting the bag. **The protection provided by the SafeCharge bag IS LIMITED as explained below.**

***IMPORTANT:*** **The SafeCharge LiPo Charge Bag cannot guarantee 100% protection for all surroundings if a LiPo battery does catch fire while inside. Read this manual entirely before use!** ElectriFly will not be held responsible for any and all incidental damages and harm that may result from improper use of the SafeCharge LiPo Battery Charge Bag. By purchasing and using this product, the buyer/user agrees to bear all responsibilities of these risks and not hold ElectriFly and/or its distributors (owners and employees) responsible for any accidents, injury to persons, or property damage. **If you do not agree with these conditions, please return the SafeCharge bag to the place of purchase.**

## *Glossary of Terms*

**Nominal voltage (V):** a unit of voltage that one might expect to measure on a LiPo cell or pack at any given test point. This is not the minimum or maximum possible voltage. If not printed on the battery's label, consult your LiPo battery supplier or determine the proper pack voltage as shown here.

| Number of Cells Wired In Series | Nominal Pack Voltage |
|---|---|
| 1 | 3.7V |
| 2 ("2S") | 7.4V |
| 3 ("3S") | 11.1V |

**Capacity and milliamp hours (mAh):** the amount of energy a battery can store is called its **capacity**. A battery's capacity is rated in **"mAh" or milliamp hours**, and should be printed on the battery's label.

**Class "D" type fire extinguisher:** unlike common household fire extinguishers, class "D" type extinguishers produce an even flow of powderized dry chemicals to smother fires which involve metals such as magnesium, sodium, potassium, uranium, powdered aluminum, etc. Lithium-polymer batteries do contain tiny metallic substances and CANNOT be extinguished with a common household fire extinguisher. Confirm the ratings on the fire extinguisher's label to determine whether it's a Class "D" extinguisher (often being yellow in color).

## *Charging a LiPo Battery*

### *IMPORTANT WARNINGS!*

● **DO NOT attempt to charge a LiPo battery which has a nominal voltage rating greater than 11.1 volts and/or a rated capacity greater than 3200mAh inside the SafeCharge LiPo Charge Bag. Exceeding these maximum ratings could result in a fire which could exit the bag and damage the surroundings and/or cause personal injury.**

● **NEVER** attempt to charge LiPo cells in the same way as other battery types! Failure to follow proper care and handling instructions for LiPo batteries can result in the batteries catching on FIRE!

● **NEVER** leave the area while the battery is being charged!

● **NEVER** allow LiPo batteries to overheat at any time. Cells which exceed 140°F (60°C) during charge can become damaged and catch **FIRE!!** Monitor the charge process regularly until complete.

● If the battery becomes hot, swells, or emits smoke, it's an indication the battery has become damaged and is prone to rupture / fail. If a battery flames while inside the bag, the outer surface of the bag itself could become hot.

● **NEVER** place the battery and SafeCharge bag on or near flammable objects while in use, such as on carpeting, cluttered workbench, paper, plastic, vinyl, leather, wood, kitchen or coffee table, inside any vehicle (full-scale or R/C), or any other item that could melt, combust, or ignite.

● It's highly recommended to have a Class "D" type fire extinguisher nearby while the battery is being charged. A class "D" fire extinguisher can extinguish a LiPo fire, and help to minimize the amount of heat and smoke which might be emitted from the bag. Do NOT use a common household type fire extinguisher as it is not capable of extinguishing a LiPo fire.

● If a battery flames inside the bag, smothering the bag with sand is another way to extinguish the fire.

● Do not attempt to charge batteries that have been damaged in a crash or are known to be bad.

● Closely follow all safety instructions that accompany the battery and charger which will be used.

1. Before each use, inspect the SafeCharge bag thoroughly to ensure no physical damage exists (holes, cracks, burns, etc.). If damaged, the SafeCharge bag is NO LONGER SAFE to use and should be disposed.
2. **ALWAYS** find a safe location to charge the battery inside the SafeCharge bag. Place the SafeCharge bag on a surface that will not become damaged if a fire occurs inside and heats the outside of the bag, such as inside an empty ammunition box, flower pot, on a ceramic tile, brick, cinder block, etc. It's also highly recommended that this location be very well ventilated where smoke cannot build, and away from other flammables such as walls, hangings, low ceilings, etc.

Placing the bag, charger, and battery in the center of an open garage away from vehicles, walls, etc. is one suggestion. Pay close attention to all warning statements listed above before proceeding.

3. Connect the LiPo battery to a LiPo compatible charger, but do NOT start charge at this time. It is the user's responsibility to select an appropriate charger and settings for the LiPo battery to be charged. Refer to the instructions provided with the battery and charger. **Do not charge a battery inside the SafeCharge bag that is rated above 11.1V and/or 3200mAh nominal.**
4. Open all snaps, open the bag and place the battery inside as far down into the bag as possible.

5. Route the wires from the battery and charger through the small gap located on either side of the bag near where the flap closes (see picture).
6. Close ALL SNAPS, ensuring a tight connection for each.
7. Command the charger to start charge.
8. Stand by to monitor the charging.

## *In the Event of a Fire – Safety and Disposal*

**IMPORTANT! If a battery catches fire while inside the SafeCharge Bag, always maintain a safe distance from the fire! Do NOT attempt to remove a hot or swollen battery from the bag. Do not attempt to touch the bag as it may be very hot. Stay upwind and avoid inhaling the smoke!**

1. Interrupt power to the battery or to the charger (whichever is safest). Either disconnect the connection to the battery, or on the input of the charger.
2. **ONLY IF SAFE TO DO SO**, fight the fire. Use a "class D" fire extinguisher, or completely cover the flame with sand.
3. Once the flame has been extinguished after approximately 30 minutes, or until the bag and battery have cooled, move the bag with battery inside to a safe location outdoors and follow the disposal instructions below.

**DO NOT** allow the internal electrolyte or smoke from a LiPo battery to get in the eyes or on skin. Refer to the FIRST AID INSTRUCTIONS section on page 4.

Refer to the instructions with your battery, or ask the battery supplier for proper instructions for disposal of a LiPo battery.

## Re-Using the SafeCharge LiPo Charging Bag

The SafeCharge LiPo Charging Bag can be re-used as long as (a) no physical damage or wear is evident anywhere on the bag material itself, the seams, or on the snaps, and (b) no fire has previously occurred inside the bag.

***IMPORTANT!*** **If a fire has occurred inside the SafeCharge bag, do NOT attempt to re-use the bag as it will no longer provide safe protection. Dispose of the bag.**

## First Aid Instructions

**DO NOT** allow the smoke or electrolyte from a LiPo battery to get in the eyes or on skin. Wash affected areas of skin with soap and water immediately if they come in contact with the electrolyte and seek attention from a physician. Do not inhale gas vapors or smoke from a burning LiPo battery! If smoke or electrolyte makes contact with the eyes, flush with large amounts of water for 15 minutes and seek medical attention immediately! If a battery burns inside the SafeCharge bag, leave the area and allow the batteries to cool and the vapors to dissipate. Remove spilled liquid with absorbent towels and dispose.

## Short and Long-Term LiPo Battery Storage

For short and long term storage, it's recommended to place LiPo batteries inside an empty metal ammunition can, and store in a dry location at room temperature, away from sunlight, and away from children. Do NOT use the SafeCharge bag for short or long term storage of LiPo batteries.

## 1 Year Limited Warranty – *U.S.A and Canada Only

ElectriFly warrants this product to be free from defects in materials and workmanship for a period of 1 year from the date of purchase. During that period, ElectriFly will, at its option, replace without service charge any product deemed defective due to those causes. You will be required to provide proof of purchase (invoice or receipt). This warranty does not cover damage caused by abuse, misuse, alteration or accident. If there is damage stemming from these causes within the stated warranty period, ElectriFly will, at its option, replace it for a service charge not greater than 50% of its then current retail list price. Be sure to include your daytime telephone number in case we need to contact you about your repair. This warranty gives you specific rights. You may also have other rights, which vary from state to state.

**For Technical Service and Support, please contact:**

**Hobby Services**
3002 N. Apollo Drive, Suite 1
Champaign, IL 61822

(217) 398-0007
**hobbyservices@hobbico.com**
**electrifly.com**

*For warranty information if purchased outside the USA or Canada, ask your retailer for more information.

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