

XCEL Motorsports Lithium Polymer (LiPo) Battery Safety Guidelines

THESE INSTRUCTIONS & PRECAUTIONS MUST BE READ PRIOR TO USE & FOLLOWED AT ALL TIMES!

WARNING: Failure to exercise extreme care or follow these guidelines, instructions, & precautions while using this product may result in product malfunction, fire, property damage, and/or serious bodily injury.

If you, the purchaser or user of this product, are not prepared to accept the liability associated with use of this product, you should immediately return this product in new & unused condition to the place of purchase. Use of this product signifies that you have read these guidelines and accept the liability associated with use of this product.

LiPo batteries are NOT toys. For the purpose of this document, Li-Po batteries will be described as “battery” or “batteries.”

General Safety Guidelines & Warnings:

- Never use, charge, or discharge a battery unattended.
- If at any time a battery becomes damaged, hot, or begins to balloon (swell or puff) discontinue charging, discharging, or use. Immediately & safely disconnect the charger or rc vehicle then place the battery in a safe, open area away from flammable materials in a LiPo sack or similar safety container to observe. After one hour, remove the battery from use. Do NOT continue to handle, use, or ship the battery. Failure to follow these procedures may cause property damage or serious injury.
- If your rc vehicle is involved in a crash, immediately & safely disconnect the battery, remove from rc vehicle, and follow the procedure listed directly above.
- Ballooned (swollen or puffed) batteries can be unstable and hot. Do NOT touch ballooned batteries until they have cooled. Dispose of batteries in the manner required by your local municipality. If needed, contact XCEL Motorsports for directions on how to dispose of damaged batteries. In the event of a fire, a Class D, dry chemical fire extinguisher must be used.
- Never alter or puncture batteries.
- Never allow battery terminals to touch each other via connection by metal objects such as personal jewelry, staples, wire, or another battery. Direct connection of the terminals will short circuit batteries which may cause a fire.
- Never expose batteries to extreme temperatures or direct sunlight. They must remain in the temperature range of 40-120 degrees Fahrenheit (4-49 degrees Celsius).
- Always disconnect batteries when not in use & store in a non-conductive and fireproof container (ie: lipo sack).

Guidelines & Warnings Before The First Charge:

- Make a visual & physical examination of batteries for any loose leads or connections, damaged case, or other issues or damage that may cause a short circuit leading to a potential fire. Do NOT charge if any damage is found.
- Verify that the positive terminal of the battery is connected to the positive terminal of the charger & vice versa with the negative terminal. Verify polarity with a voltmeter if not sure which terminal is which.
- Check the voltage of the batteries using a voltmeter. The voltage should be between 3.7V to 3.9V per cell. (ie: 2 cell packs should read 7.4V - 7.8V and 1 cell pack should read 3.7V - 3.8V).

Guidelines & Warnings for Charging:

- Always use a CV/CC balance mode charger specifically designed to charge these batteries. Never trickle charge.
- Always charge batteries in a LiPo sack or similar safety container. Charge in an open area away from flammable materials, liquids, and surfaces.
- Never charge batteries inside the model or a full size vehicle.
- Always set the charger to the proper cell count and/or voltage listed on the battery's label.
- Batteries can be safely charged at 3C and not lower than 1C. (ie: 7000mAh 1C = 7 amps & 3C = 21 amps).
- Check the voltage of batteries before each charge to ensure they are not below 3V per cell. If the batteries are below 3V per cell, this means they have been over discharged or have experienced a failure and should NOT be charged.
- Never charge above 4.2V per cell or this will damage the pack leading to a possible fire or explosion.

Guidelines & Warnings for Discharging:

- Do NOT discharge batteries at higher amp/C rates than specified on battery labels.
- Do NOT allow the battery temperature to exceed 160 degrees Fahrenheit during discharge. Batteries must have sufficient cooling time between use, charge, and/or discharge.
- Do NOT discharge below 3V per cell.
- There is an especially high potential for issues, including fire, property damage, and/or personal injury, if the above discharging guidelines are not followed.

Guidelines & Warnings for Storage:

- Do NOT keep the battery fully charged for more than 48 hours after charge. Doing so increases the odds of issues & reduces cycle life. Batteries should be stored between 3.7V to 3.9V per cell.
- Store batteries in a dry, room temperature (ie: 50-80 degrees Fahrenheit) location. Do NOT store or leave batteries connected in rc vehicle. Store batteries in LiPo sack or similar safety container
- If not using batteries for an extended amount of time, it is recommended to cycle them every 6-8 weeks. This will keep the chemicals active to reduce the odds of issues and extend the cycle life. Cycle = fully charge then discharge down to 3.7V - 3.9V per cell.

Limited Warranty & Liability

- XCEL Motorsports reserves the right to edit or modify this warranty without notice and disclaims all other warranties, expressed or implied.
- This warranty is limited to the original purchaser and is not transferable. This warranty covers only those XCEL Motorsports batteries purchased from XCEL Motorsports directly or through an authorized dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims.
- XCEL Motorsports guarantees that the batteries purchased will be free from defects in material and workmanship at the date of purchase by the original purchaser.
- Replacement is the sole, exclusive remedy under this warranty if XCEL Motorsports determines the battery to be defective in material or workmanship at the date of purchase.
- Replacement decisions are at the sole discretion of XCEL Motorsports. If purchased through an authorized dealer, they can not provide warranty support or replacement. If there is a defect in material or workmanship at the date of purchase, please contact XCEL Motorsports. Contact info is below.
- Do NOT ship defective batteries. XCEL Motorsports does not inspect or repair batteries. XCEL Motorsports will further instruct the purchaser, if necessary.
- This warranty does not cover damage due to use, misuse, acts of God, accident, abuse, cosmetic damage, negligence, commercial use, or modification in any way, shape, or form. Nor does this warranty cover damage due to improper installation, operation, maintenance, or attempted repair by anyone. XCEL Motorsports makes no warranty or representation, expressed or implied, about noninfringement, merchantability, or fitness for a particular purpose of the product. The purchaser acknowledges by use of the product that they alone have determined that the product will suitably meet the requirements of the purchaser's intended use.
- XCEL Motorsports shall not be liable for any specific, indirect, or consequential damages, loss of profit, production, or commercial loss in any way connected with the product, whether claim is based on contract, warranty, negligence, or strict liability. Further, in no event shall the liability of XCEL Motorsports exceed the individual price of the product on which liability is asserted as XCEL Motorsports has no control over the setup, final assembly, modification, use, or misuse. No liability shall be assumed, nor accepted, by XCEL Motorsports for any resulting damage or injury. By the act of use, setup, or assembly the user accepts any & all resulting liability.



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