



CANADIAN ELECTRIC BICYCLE ASSOCIATION

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## IMPORTANT USAGE, STORAGE AND SAFETY INFORMATION FOR LITHIUM BATTERIES

Lithium batteries have become indispensable in powering battery operated micro mobility devices. While these batteries offer remarkable performance, it is essential for the public to be well-informed about their proper usage, storage, and safety measures. While the risk associated with Certified UL lithium batteries is minimal under normal conditions, education on safe handling, storage and safety is crucial to prevent potential hazards and ensure the longevity of these power sources. This information aims to equip users with the knowledge needed to harness the benefits of lithium batteries responsibly and minimize any potential risks.

Always follow the manufacturers recommendations in the manual for lithium battery handling, charging, storage and care prior to using your device.

Only use E-bike and battery powered devices that are tested by a qualified and nationally recognized laboratory as this will minimize an occurrence of a battery failure.

Do not purchase rebuilt, refurbished or 3rd party uncertified lithium batteries as these batteries are the highest risk for fires. Always use certified UL replacement batteries from the manufacturer

If you notice any abnormal behavior like odor, smoke, leaking, overheating discontinue use and contact the manufacturer or dealer.

When charging is complete, remove the charger.

Never charge your lithium battery unattended or unattended overnight.

Never open a lithium battery if you are not qualified to do so, It can be fatal if tampered with and may cause a fire as well as void your warranty.

Charging the battery on the ebike is one option (in case of malfunction the ebike can be rolled outside, if safe to do so). If you must remove the battery pack to charge, place it on a concrete floor and away from flammable materials before charging. **DO NOT BLOCK YOUR ONLY ESCAPE ROUTE** with the battery charging. Have a fire plan in place.

Only charge and store the battery in an area with a working smoke detector. If you notice an odor, smoke or odd noise coming from the charger or battery roll the ebike outside if it is safe to do so and call 911.

NEVER use a charger that is not from the manufacturer of that battery. Just because it looks the same does not mean it will function the same and could cause a fire. ONLY use approved chargers from the manufacturer of your battery that are designed for your battery.

Never modify your battery or ebike as this can potentially cause a short or overheating and cause a fire.

Do not charge your battery in very hot or very cold weather. It should be room temperature before charging 20°C or 68°F

Do not store your e-bike battery in temperatures above 30°C-or 86°F or in direct sunlight where the battery can overheat. Keep from freezing. Excessive heat or freezing can damage the internal components and battery cells and could cause a fire or damage if recharged or discharged.

For long-term storage your battery should be in a clean and dry environment away from flammable materials and should **not be fully charged** to 100%. A few bars on your battery meter or display should be missing as an indicator. It should be stored at 30% charge.

You should check on your lithium battery once per month in storage as the battery will slowly discharge over time. To ensure it stays at 30%, top up the charge for 30 to 60 minutes and monitor charging, then remove the charger at 30% charge. NEVER store your battery at 100% charge as it contains more energy.

If the lithium battery or charger is dropped, damaged or immersed in water discontinue use as internal components may have been damaged and could cause a fire or electrocution. Inspect your battery and charger regularly for damage.

When disposing of a lithium battery please follow your local regulations or return to your dealer for recycling. Lithium batteries should not be disposed of in the garbage.

Above are general guidelines and best practices to follow to minimize and avoid a battery failure.