

Lithium Ion Battery Safety for Consumers



Lithium ion batteries supply power to many kinds of devices including smart phones, laptops, scooters, e-cigarettes, smoke alarms, toys, and even cars. Take care when using them. In rare cases, they can cause a fire or explosion.

The problem

- These batteries store a large amount of energy in a small amount of space.
- Sometimes batteries are not used the right way; batteries not designed for a specific use can be dangerous.
- Like any product, a small number of these batteries are defective. They can overheat, catch fire, or explode.

Safety Tips

- Purchase and use devices that are listed by a qualified testing laboratory.
- Always follow the manufacturer's instructions.
- Only use the battery that is designed for the device.
- Put batteries in the device the right way.
- Only use the charging cord that came with the device.
- Do not charge a device under your pillow, on your bed or on a couch.
- Keep batteries at room temperature.
- Do not place batteries in direct sunlight or keep them in hot vehicles.
- Store batteries away from anything that can catch fire.



Signs of a Problem

Stop using the battery if you notice the problems.

- odor
- change in color
- too much heat
- change in shape
- leaking
- odd noises

If it is safe to do so, move the device away from anything that can catch fire. Call **9-1-1**.

Battery Disposal

- Do not put lithium ion batteries in the trash.
- Recycling is always the best option.
- Take them to a battery recycling location or contact your community for disposal instructions.
- Do not put discarded batteries in piles.
- Lithium ion batteries should be placed in a sealed metal container.



NATIONAL FIRE PROTECTION ASSOCIATION

The leading information and knowledge resource on fire, electrical and related hazards