



Battery Safety Guide

For your safety, please carefully read this safety guide before using battery packs and save this manual for future references. This manual indicates all potential safety hazards that can associate with misuse, misapplication, or damage to battery packs.

Ni-Cd & Ni-MH Batteries

Danger!

Failure to observe the following procedures may result in battery leakage, heat, bursting, and serious personal injury.

1. Never dispose of batteries in fire or expose to high temperature.
2. Do not incinerate or heat batteries.
3. Do not short circuit batteries with conductive material.
4. Do not disassemble or alter battery packs.
5. Do not over-charge, charge with reversed polarity, or over-discharge batteries. Cell gas release vent may be damaged and cause rupture.
6. Do not connect the battery reversed in (+) and (-) terminals in the charger or equipment.
7. Batteries contain strong colourless electrolyte which may cause permanent loss of eyesight and injury when in direct contact with eyes or skin. Immediately flush with clean water when in contact with leaked electrolyte and consult a physician.

Warning!

1. Do not immerse batteries in water.
2. Stop using the battery if it is leaking, deformed, damaged, or differ from its normal condition.
3. Replace the battery when usage time becomes abnormally short.
4. Do not leave the battery in a charger or equipment if it generates an odor and/or heat, changes color and/or shape, leaks electrolyte, or causes any other abnormality.
5. Use only approved charger to charge the battery.
6. Do not swallow batteries and keep away from small children.

Caution!

1. Do not drive a nail in, hit with a hammer, stamp, step or strike the battery in other ways.
2. Do not use the battery outside of the specified temperature range on the specification; otherwise, the battery might cause heat generation, damage, or deterioration of its performance.
3. Storage is recommended at room temperature (25°C).
4. Store batteries in dry and cool place.
5. Do not charge the battery beyond the time specified in the charger / equipment instruction manual.
6. If the battery has lead-wire or connector, do not carry the battery by its lead-wire or connector.
7. Clean battery contacts with soft cloth if they are dirty. Dirt on battery contacts may result in poor contact with equipment and charger.
8. Recycling may be required for your region; consult local recycling facility for more information.



Li-ion & Li-Polymer Batteries

Li-ion batteries contain large amount of energy and are manufactured with safety features incorporated. Mishandling may cause the battery to leak, fire, or explode and result in personal injury and/or property damage. Please strictly observe the following prohibitive measures.

Danger!

Failure to observe the following procedures may result in battery leakage, heat, bursting, and serious personal injury.

1. Never dispose of batteries in fire.
2. Keep batteries away from combustible materials.
3. Do not incinerate or heat batteries.
4. Do not short circuit battery packs across its terminals. Avoid carrying packs in a pocket that may contain loose change, paper clips, keys, and any other conductive materials.
5. Do not disassemble, alter, or reconstruct a Li-ion battery.
6. Do not solder directly on batteries.
7. Do not over-charge, charge with reversed polarity, or over-discharge the battery. Cell gas release vent may be damaged and cause rupture.
8. Do not connect the battery reversed in (+) and (-) terminals in the charger or equipment.
9. Do not connect a Li-ion battery directly on a power source. High voltage may cause electrolyte leakage, heat generation, bursting or fire.
10. Batteries contain strong colourless electrolyte which may cause permanent loss of eyesight and injury when in direct contact with eyes or skin. Immediately flush with clean water when in contact with leaked electrolyte and consult a physician.

Warning!

1. Do not immerse battery packs in water.
2. Do not store batteries in temperatures exceeding 60 °C (140 °F) and in direct sunlight.
3. Stop using the battery if it is leaking, deformed, damaged, or differ from its normal condition.
4. Li-ion batteries have a predetermined operating life even it is never been used. Batteries remaining unused and uncharged for more than 12 months or having very short usage time should be replaced. Do not attempt to continue charging or discharging such batteries.
5. Do not leave the battery in a charger or equipment if it generates an odor and/or heat, changes color and/or shape, leaks electrolyte, or causes any other abnormality.
6. Remove the battery from the equipment during storage.
7. Use only approved charger to charge the battery and follow all of the safety guidelines supplied with the charger and/or equipment.
8. Do not swallow batteries and keep away from small children.



Caution!

1. Do not drive a nail in, hit with a hammer, stamp, step or strike the battery in other ways.
2. Do not use the battery outside of the specified temperature range on the specification; otherwise, the battery might cause heat generation, damage, or deterioration of its performance.
3. Do not charge the battery beyond the time specified in the charger / equipment instruction manual.
4. Do not charge a Li-ion battery outside the range of 0 °C ~ 45 °C (32 °F~113 °F).
5. If the battery has lead-wire or connector, do not carry the battery by its lead-wire or connector.
6. The battery pack contains built-in circuit protection devices. Do not use it in a location where static electricity (greater than the equipment manufacturer's guarantee) may be present. Otherwise, the safety devices may be damaged.
7. Handle damaged or leaking batteries with care, personal injuries may result from mishandling.
8. Clean battery contacts with soft cloth if they are dirty. Dirt on battery contacts may result in poor contact with equipment and charger.
9. Recycling may be required for your region; consult local recycling facility for more information. Insulate the battery contacts with tape before disposal.