

# GENERAL BATTERY USAGE GUIDELINES



Lithium-ion Polymer technology provides state-of-the-art DC energy storage and has been widely adopted to meet user demand for more power and longer operating times.

The risk of battery swelling, while low, is inherent with Lithium-ion Polymer cell technology.

A swollen battery may impact the performance of the device and in some cases damage the product enclosure.

As a reminder, it is important to always purchase genuine replacement batteries from Datalogic.

## General Safety Guidelines:

- Use only a Datalogic approved power supply. The use of an alternative power supply will void the product warranty, may cause product damage and may cause heat, an explosion, or fire.
- Always use Datalogic approved batteries designed specifically for the device.
- Storing unused batteries for periods longer than 1 month in a cool, dry environment at less than 70% relative humidity non-condensing and within temperature ranges of 5°C to 30°C (41°F to 86°F).
- Avoid of storing batteries for long periods in a state of continuous charging (inserted in the device or in a charger), full charge or very low charge. To reduce the degradation and the risk of swelling, the optimal state of charge for storage is between 30% and 70%.
- Avoid of storing batteries in devices to avoid over-discharging batteries which may result in permanent deterioration of capacity and an increased risk of swelling.
- Do not place the battery pack in or near a fire or other heat source; do not place the battery pack in direct sunlight, or use or store the battery pack inside unventilated hot areas. Do not place the battery pack in microwave ovens, in clothes dryers, in high pressure containers, on induction cook surfaces or similar devices. Doing so may cause the battery pack to generate heat, explode or ignite. Using the battery pack in this manner may also result in a loss of performance and a shortened life expectancy.
- In the case of any knocks or excessive vibrations substitute the battery.
- Do not disassemble or modify (i.e. bend, crush or deform) the battery pack. The battery pack contains safety and protection devices, which, if damaged, may cause the battery pack to generate heat, explode or ignite.
- Do not apply voltages to the battery pack contacts.
- Do not solder directly onto the battery pack.
- Do not expose the battery pack to liquids.
- Protect battery tabs from short circuits.

## Checking if the Battery is Swollen

Periodically check the battery status. If any of the below indicators are present, your battery may be swollen.

- Touchpad or keyboard lifting.
- The device rocks when placed on a flat, horizontal surface.
- Interference with the device or charging cradles.
- Uneven seams where case/cover parts meeting (enclosure splitting).
- You can feel unusual smell.
- Feels hot while charging or insufficient capacity.
- Changes color or shape.
- Appears abnormal.

## Handling Guidelines for Li-ion Batteries

- Swollen or damaged batteries should not be used and should be replaced and disposed properly following local regulation.
- Handling and replacement of any Lithium-ion Polymer battery must be done with caution.
- Swollen batteries shall be handled and replaced in accordance with the instructions reported below.
- Discharge the battery before removing it from the system. To discharge the battery, unplug the AC adapter/charging cradle from the system and operate the system only on battery power. When the system will no longer power on when the power button is pressed, the battery is fully discharged.
- If a battery gets stuck in a device, do not try to free it and contact the nearest Authorized Repair Centre (by submitting RMA on the public Datalogic side). Forced removal may damage your battery by puncturing, bending, or crushing.
- If there is leakage of liquid from the battery do not touch the battery with naked hands and avoid contact with skin/eyes. In the case of contact call immediately a doctor for assistance.
- Put the battery in dry environment at ambient temperature <30°C.
- Do not crush, drop, mutilate, or penetrate the battery with foreign objects.
- Do not expose the battery to high temperatures or disassemble battery packs and cells.
- Do not apply pressure to the surface of the battery, do not bend the battery
- Do not use tools of any type to pry on or against the battery.
- Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts, pressures, or shocks.
- Do not attempt to reassemble a damaged or swollen battery into the device.
- Do not remove or damage the battery pack's label.
- Do not use a battery on devices different than those for which it was designed.
- Swollen batteries have the potential to physically damage the product enclosure. They must be disposed according to local regulation.

