Handling swollen Lithium-ion batteries

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Like most laptops, Dell laptops use lithium-ion batteries. One type of lithium-ion battery is the lithium-ion polymer battery. Lithium-ion polymer batteries have increased in popularity in recent years and have become standard in the electronics industry due to customer preferences for a slim form factor (especially with newer ultra-thin laptops) and long battery life. Inherent to lithium-ion polymer battery technology is the potential for swelling of the battery cells.

Swollen battery may impact the performance of the laptop. To prevent possible further damage to the device enclosure or internal components leading to malfunction, discontinue the use of the laptop and discharge it by disconnecting the AC adapter and letting the battery drain.

Swollen batteries should not be used and should be replaced and disposed of properly. We recommend contacting Dell product support for options to replace a swollen battery under the terms of the applicable warranty or service contract, including options for replacement by a Dell authorized service technician.

Guidelines for handling and replacing Lithium-ion batteries

- Exercise caution when handling Lithium-ion batteries.
- Discharge the battery before removing it from the system.
  - To discharge the battery, unplug the AC adapter 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.
  - 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.
  - If a battery gets stuck in a device as a result of swelling, do not try to free it as puncturing, bending, or crushing a battery can be dangerous.
  - Do not attempt to reassemble a damaged or swollen battery into a notebook PC.
  - Swollen batteries should be returned to Dell in an approved shipping container (provided by Dell), to comply with transportation regulations or disposed at an approved recycling center.
  - Contact Dell product support at https://www.dell.com/support for assistance and further instructions.
  - Using a non-Dell or incompatible battery may increase the risk of fire or explosion. Replace the battery only with a compatible battery purchased from Dell that is designed to work with your Dell computer. Do not use a battery from other computers with your computer. Always purchase genuine batteries from https://www.dell.com or otherwise directly from Dell.

Lithium-ion batteries can swell for various reasons such as age, number of charge cycles, or exposure to high heat. For more information on how to improve the performance and lifespan of the laptop battery and to minimize the possibility of occurrence of the issue, see Dell Laptop Battery - Frequently Asked Questions.

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