

# Battery Solutions Damaged, Defective or Recalled (DDR) Lithium Batteries: Required Packaging

## Identifying a DDR Lithium-ion Battery



These batteries are all examples of damaged batteries that must be handled carefully and requires special packaging per the US DOT regulations.

Cells are bloated and breaching the plastic cases of these laptop batteries



Swollen cell phone battery



Normal cell phone battery



## The Danger of DDR Lithium-ion Batteries



Photo credit: Tek-Think



Photo credit: appleinsider



Photo credit: PC Pitstop

A short-circuit or internal or external damage can cause the electrolyte inside the battery to raise its vapor pressure until the battery bursts, usually violently. This is called thermal runaway and is difficult to stop once initiated, the battery will explode and catch on fire. These fires can reach temperatures of 900°C or 1600°F.

## Required Packaging for DDR Lithium-ion Batteries



These batteries must be packaged individually using a special kit for safe storage and transport per the U.S. DOT 49 § 173.185(f) regulations. It is advisable to package and ship immediately, as they are a fire hazard.

The kits come in multiply sizes, to order and to learn more, visit: [www.batterysolutions.com/store](http://www.batterysolutions.com/store)