

## TYPES OF LAPTOP BATTERIES

**Lithium-ion (Li-Ion):** The Lithium batteries hold charge better than the Nickel batteries. These kinds of types of laptop batteries, Li-Ion (and Li-Poly) batteries, are the Leading Edge battery technology. A typical Li-Ion cell is rated at 3,6V and this is three times more than the typical NiCd or NiMH cell voltage (1,2V).

**Nickel-cadmium (NiCad) and Nickel-metal hydride (NiMH):** The Nickel batteries are the older version of batteries and are not commonly used in new laptops.

The following is a survey of various current market laptops and their sold-with battery types:

Dell Mini 10 – Li-Ion  
Dell Mini 10v – Li-ion  
Dell Inspiron 11z - Li-ion  
Dell Inspiron 14 – Li-ion  
Dell Studio 15 – Li-ion  
Dell Alienware M15x – Li-ion  
Toshiba Satellite A-500 – Li-ion  
Toshiba Tecra M10 – Li-ion  
Sony Vaio CW Series – Li-ion  
HP ProBook 4510s – Li-ion

## PROLONGING YOUR LAPTOP BATTERY'S LIFE



On February 4<sup>th</sup>, Microsoft announced it was working with its hardware partners to determine why some Windows7 laptops, even when using healthy laptop batteries, were displaying messages indicating the user needed to change its battery due to a problem with the device. So, errors aside, CompuMend decided it was time to produce its own list of recommendations users can take in order to prolong the life of their laptop batteries.

### TIPS

**Remove the Battery** – If your laptop is always or usually plugged into the AC power, then remove the battery while it's plugged in. You only need the battery attached when you are charging it.

**Let the Battery Die** – Once a month let the battery completely exhaust itself. Leave your laptop turned on all night and let the battery die totally. Then recharge it.

**Monitor Your Battery** – Use a program like PassMark's BatteryMon to get a diagnostic of your battery to see if it's performing correctly.

**Control the Battery Climate** – Don't leave your laptop in your car on a typically hot Florida day. Additionally, don't leave it in a car during the coldest days...even Florida's coldest days.

**Adjust the Power Settings** – Use the inherent power settings within the Microsoft operating system to help determine the settings that will keep your battery working longer as you use it while detached from the AC power.

**Dim the Monitor** – When running on battery power, dim the monitor to conserve power.

**Keep it Light** – Don't run devices connected through your USB, firewire or other external connections.

**No CDs/DVDs** – Your CD and DVD drives require much power when in use. Limit their use during battery-powered times.

**Switch to Classic View** – Limit the use of the fancy graphics.