



4 Myths of Handphone Batteries

Every now and then, we'll hear bits and pieces of information about handphone batteries. Are you S.U.R.E what you've heard is true? Using S.U.R.E, we debunk 4 popular myths surrounding this elusive power supplier of our communication device:

First of all

Know that most handphone batteries use Lithium-ion batteries.

So, check if your handphone battery is a Lithium-ion battery.

With that established, let's debunk these myths:

MYTH 2

Overcharging handphone batteries can ruin your battery life.

Overcharging batteries does not ruin your battery life. According to Battery University, no further charge can be applied to lithium-ion batteries even when the battery is fully charged.

but why do we still have to unplug it?

Overcharging can generate heat, and this could compromise safety. You wouldn't want anything to catch on fire, do you?

MYTH 3

Draining the battery dry before recharging it for a longer life.

How To Geek recommends performing shallow discharges. Unlike other batteries, the lithium-ion batteries have no 'memory effect'. DPreview explains that memory effect occurs when we charge the batteries before they are discharged. Such actions will weaken the charging capacity, but this is not the case for Lithium-ion batteries.

MYTH 1

Priming the batteries for 8 hours before using it for the first time.

While some older rechargeable battery types, such as Nickel Cadmium (NiCd) and Nickel Metal Hydrate (NiMH) needs priming, many Lithium-ions (including Li-ion Polymers) do not need priming and can be used straight out of the box. However, for safety, do read the instruction manual before using the batteries!

MYTH 4

Temperatures have no effect on the batteries.

Lithium-ion performs better at high temperatures than low ones. However, it is important to note that high temperatures stress the batteries too. GigaOm added that high temperatures damage the batteries' power capacity and can render the battery useless.

Sources:

http://batteryuniversity.com/learn/article/charging_lithium_ion_batteries
http://batteryuniversity.com/learn/article/how_to_prime_batteries
<http://h10025.www1.hp.com/efw/fr/wc/document?cc=us&lc=en&docname=c00596784>
<http://www.howtogeek.com/169669/debunking-battery-life-myths-for-mobile-phones-tablets-and-laptops>
<http://www.dpreview.com/glossary/camera-system/batteries>
http://batteryuniversity.com/learn/article/discharging_at_high_and_low_temperatures
<http://gigaom.com/2011/06/29/why-lithium-ion-batteries-die-so-young>