



# Does iphone have lithium battery

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Batteries are not mysterious black boxes that power your iPhone, in fact, they are quite simple products compared to the advanced silicon they are powering. The physical nature of batteries mean that they will ultimately wear out and become less useful over time, but device owners don't need to worry.

Understanding a little bit of the science behind batteries can go a long way in intelligently managing your device's lifespan. Controversies surrounding iPhone relating to planned obsolescence and expected upgrade cycles can easily be dismissed as hyperbole with a little bit of knowledge.

A battery consists of an anode (+) and cathode (-) separated by a generally flammable electrolyte. When a device draws power from the battery, charged lithium ions move from the anode to the cathode through the electrolyte, releasing electrons.

These freed electrons power the device and return to the cathode, creating a complete electrical circuit. The opposite occurs when charging the device &mdash; electrons are passed into the anode and move to the cathode.

Without getting too technical, these two chemical reactions are imperfect and introduce heat loss and wear to the battery. The lithium material slowly depletes, oxidization reduces usable surface area, and filaments grow from battery plates. All this leads to cell degradation and eventual battery exhaustion.

There is nothing a user can do to stop this process utterly. Take using fuel in a car, for example, it eventually runs out. However, exhausting a lithium battery takes a great deal of time and can be mitigated somewhat by user and software behaviors.

So, when a new iPhone has a 100% battery rating, it has all of the rated milliamp-hours of power available when fully charged. It also means the battery can provide enough power to the CPU at peak current draw without issue.

This expected battery life can vary from user to user. The average user is expected to keep their battery health north of 80% for the first two years with regular use. Hitting 80% within a year is cause for concern, and Apple will replace your battery for free with AppleCare or for a fee without.

Others who use their iPhone constantly and charge their device from near dead to 100% multiple times a day will see their battery degrade faster. Looking at your Screen Time will reveal if you're unconsciously overusing your device &mdash; maybe it's time to put down your iPhone if TikTok shows multiple hours of use in a short time.

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Ultimately, once the battery degrades below 80% of its original capacity, protections within the operating system will engage to ensure the device doesn't shut down inadvertently. This throttling can be avoided by having the battery replaced at an Authorized Apple Service Provider.

Before iOS 10.2.1 in 2017, the iPhone didn't do much to account for aging batteries in its software. However, a perfect storm of circumstances set Apple up for user complaints about inadvertent shutdowns in older devices.

Recent devices had more powerful processors, thinner designs, and brighter displays. These factors led to smaller batteries with lower capacities that died faster. A smaller battery also meant a lower peak voltage, which meant aging batteries would dip below peak rated voltages sooner.

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