

# New generation iPhone batteries wear out faster?

What causes battery health on new iPhone models such as iPhone 14 and iPhone 15 to decrease faster than previous generations?

Over the years, the question of battery health on iPhone has always been a top concern for users. Although Apple has continuously improved both hardware and software, the problem of battery degradation is still an unavoidable obsession with any mobile device using lithium-ion batteries.

According to observations of many technology experts and iPhone users, battery health on new iPhone models has tended to decline faster than previous generations. This is especially noticeable with the iPhone 14 Pro Max and iPhone 15 series, making many people wonder about the cause and solution.

## **Battery degradation is a natural law**

First, it is important to understand that lithium-ion batteries on all mobile devices degrade over time due to their chemical nature. This is a natural and unavoidable process, as batteries rely on electrochemical reactions involving the movement of lithium ions between the anode and cathode. Over time, the materials inside the battery corrode and deteriorate, leading to a gradual decrease in battery capacity and lifespan.

Although many Android users believe that their devices do not have the problem of rapidly draining battery life, the reality is that they experience the same problem as iOS devices. The difference is that Android doesn't display battery health details the way Apple does. Not only Apple, electric car companies like Tesla will never provide accurate information about battery degradation to users, because that can cause unnecessary concerns.

## **Charge cycle factor**

Apple measures battery health by comparing the current battery capacity to the original battery capacity, expressed as a percentage. Normally, the battery will gradually decrease to 99% after a period of use, then slow down and maintain at 97-96% for a long period of time before continuing to decline to 80%.

An important factor affecting *iPhone battery* health is the number of charge cycles. Each charging cycle is equivalent to fully charging the battery from 0% to 100%, regardless of how many times the charging process occurs in succession. For example, if you charge from 50% to 100% in the morning and from 50% to 100% in the evening, it adds up to 1 complete charging cycle.

Apple recommends that the battery on the iPhone 15 Pro Max and similar models should be able to reach approximately 80% health after 1,000 charge cycles under optimal conditions. However, many users have reported that the battery health on their new iPhones has dropped below Apple's 1,000 cycle figure quite quickly.

## **Differences in each device**

In fact, the level of battery health deterioration is different for each specific device, even if they belong to the same product line and are used in a similar way. This can be explained by differences in the battery manufacturing process as well as the fact that Apple does not regularly and accurately test and update battery capacity.

Additionally, many people believe that the software on iOS 16 and iOS 17 is not yet fully optimized, leading to unnecessary battery drain for new features such as stolen device protection, widgets, and more. Other features work silently in the background. This may contribute to battery health degradation faster than before.

### **Manage and optimize battery health**

Even so, Apple has provided users with some tools to better manage and optimize battery health. In your iPhone's 'Battery' settings, you can set the maximum charge limit to 80%, enable optimal charging, or let the system manage it automatically.

Regarding charging, experts recommend that you use a genuine charger from Apple and put the phone in stand mode when charging overnight. This will help dissipate heat better, limit battery overheating and extend battery life in the long term.

### **When should I replace the battery with a new one?**

Finally, Apple recommends that users replace the battery with a new one when battery health reaches below 80%. At this threshold, the Settings app on iPhone will display the message 'Battery needs to be replaced' to remind you. The 80% level is also considered a safe threshold that allows the phone to operate stably and avoid causing serious performance and hardware problems.

Meanwhile, some others choose to continue using their iPhone until the battery health drops below 80%. They hope that Apple will continue to upgrade software and optimize features to improve battery performance on new iOS versions. However, when battery health is too low, frequent charging and discharging of the battery can increase the risk of battery failure and affect the lifespan of the device.

### **Replace genuine Energizer iPhone battery**

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