

Fast charging battery life

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Fast charging is becoming a standard feature on smartphones, electric vehicles, laptops, and other gadgets. It's convenient as it lets you juice up your device or car in less time than you would conventionally have to wait.

Fast charging is a feature that allows you to charge your device in just a fraction of the time it would typically take. Whether your phone or other device supports fast charging boils down to the included charging circuit.

Your device can only draw in power that the charging circuit was designed to handle. That's why connecting your device to a fast-charging brick will not necessarily make it charge any faster. Of course, there might be other reasons why your smartphone is charging slowly, and you need to consider these as well.

Fast charging makes it easier to top up your battery every time you feel a need to boost. Considering the increasing amount of time we spend on our devices, and how it's becoming difficult for a single charge to last all day, fast charging is more essential than ever.

These materials can be deceptive at times, tricking you into thinking your device supports fast charging—only to realize it doesn't later on. So, how many watts is considered fast charging?

Smartphone manufacturers often label anything above 10 watts as a fast charging rate. However, there's no industry standard on what is considered fast-charging speed. The higher the number, the quicker the rate of charging.

This question commonly arises due to the heat associated with bombarding your device with high amounts of power. And as you may already know, heat is bad for your battery—especially lithium-ion types—which most smartphones use today. That's why fast charging systems strive to reduce the heat as much as possible while increasing the output.

This explains why in smartphone marketing materials, you'll see companies boasting about how their fast charger takes a specific amount of time to charge the battery from zero to some capacity.

But once the battery capacity reaches that quoted level, the charging speeds are reduced to prevent stress and heat that can damage the battery's longevity. You've probably noticed your phone charges faster to a certain percentage but longer to fill the battery; this is why.

Smartphone companies have also devised other ways to reduce the impact of the fast charging phase on the battery by using a dual-battery design. This way, the two batteries share the high input load during the fast-charging phase—thus preventing damage.

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Another preventive measure is the different battery management software systems. Smartphones have a dedicated management system for overseeing charging, preventing the battery from being damaged by a high input charge. Apple's optimized battery charging is an excellent example of this.

The bottom line is fast charging won't impact your battery life substantially. But the physics behind the technology means you shouldn't expect the battery to last longer than using a conventional "slow" charging brick.

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