

Phones with solid state battery

Can solid-state batteries be used in smartphones?

While it is true that we see solid-state batteries in electric vehicles and hope to see them in smartphones, there are some glaring issues that one cannot overlook. These issues appear more prominent when you look at them through the lens of the smartphone industry rather than something else.

Can solid-state batteries extend the life of your mobile devices?

One of the biggest technological hopes when it comes to extending the battery life of your mobile devices is solid-state batteries. The likes of Toyota and Samsung have championed these for use in their future electric cars and devices.

What is a solid-state battery?

Additionally, solutions are being devised to make batteries not only easier and cheaper to produce at scale but also less reliant on rare and problematic resources. While a traditional lithium-ion battery contains a liquid or gel electrolyte, a solid-state battery uses, you guessed it, a solid alternative.

Are solid-state batteries a good choice?

Solid-state batteries also happen to be really good for their charging speed, as an ideal battery can charge 4 to 6 times faster than what is currently available in the market. The production is also faster on these batteries, thanks to the fact that they do not use as many components.

Are solid-state batteries better than lithium-ion batteries?

Research has also shown that solid-state batteries are better in terms of overall stability and safety as they do not catch fire or start swelling up, which is a common issue in a lot of li-ion batteries available in the market. Below is a comparison diagram between solid-state and lithium-ion batteries, courtesy of Samsung.

Are solid-state batteries the future?

Solid-state batteries, when they are being charged, the thickness of the lithium-metal anode goes through expansion, and it starts contracting when it is discharged--this can cause overall deterioration in the battery, and keeping the battery fixed in a place could be difficult. There is no denying that solid-state batteries are the future.



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