

Solid state car battery news

What is a solid state battery?

It's one of several advanced battery technologies that will underscore the brand's new EV focus as it pivots away from its former CEO's hybrid-centric strategy. Solid state batteries promise greater energy density, higher electric range, and faster charging that puts refueling time on-par with a gas-powered vehicle.

Are solid-state batteries a solution to EV battery problems?

Just for a comparison, the Tesla Model Y has a 336-mile range and about 15-minute fast charging time. The long-awaited solid-state batteries have been touted by some industry experts as a potential solution to EV battery concerns such as charging time, driving range, and fire risk. Solid-state batteries are nothing new.

Will a car have a solid-state battery in 2025?

Siva Sivaram, CEO of pure solid-state cell startup QuantumScape, told Reuters in December that he expects, "In 2025, at least two companies will announce that they have a solid-state battery. And by the end of 2025, somebody will announce that they are planning on a car with solid state batteries . . . [though] they won't tell you when."

Are solid-state batteries a good choice for electric vehicles?

Although solid-state batteries are not new, they've yet to be produced at the size and scale needed for electric vehicles. Not only are they more expensive to manufacture than lithium-ion batteries, but technical challenges still prevent them from being reliable enough for EVs.

When will a solid-state battery be available for commercial use?

Toyota has moved its focus to bringing solid-state batteries into mass production and ready for commercial use by 2027 or 2028. Toyota's first solid-state battery is expected to offer a 621-mile driving range with an 80 percent fast charging time of just around 10 minutes.

Will Honda's electric cars have a long-range solid-state battery?

Honda aims to have its long-range solid-state batteries in its cars come 2030. By 2040, Honda has set a goal for its electric cars to have solid-state batteries with ranges as high as 776 miles (1,249 km).

1 · Last September, Toyota announced plans for their improved lithium-ion batteries, as well as a "breakthrough" in solid-state battery technology. It's notable, because the company had been resisting its transition to electric ...

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