

Toyota solid state battery news

What is a solid-state battery?

Solid-state batteries are nothing new. Solid electrolytes were created in the 1800s, and they are currently used in small electronic devices like pacemakers and medical devices. Last October, Toyota announced signing a deal with Japanese petroleum company Idemitsu Kosan to mass produce solid-state batteries.

Does Toyota have a solid-state battery?

Today, that story has changed. Reports are breaking that Toyota has achieved a monumental manufacturing breakthrough in solid-state battery technology. The claims are so staggering they feel like they belong in a science fiction novel: A range of 1,200 km (750 miles) on a single charge. The ability to recharge from 10% to 80% in just 10 minutes.

Are solid-state batteries the first time Toyota reshaped the auto industry?

However, solid-state batteries won't be the first time the company dramatically reshaped the auto industry. In the 1970s, Toyota introduced Americans to the then-radical concept of cars that were small and fuel-efficient but still nice to drive. Up until that time, "fuel efficient" and "enjoyable" were mutually exclusive categories in America.

Did Toyota discover a 'technological breakthrough' with all-solid-state EV batteries?

Toyota also claimed to have discovered a "technological breakthrough" with all-solid-state EV batteries. Its first solid-state batteries are due out around 2028 with over 620 miles (1,000 km) WLTP range and 10-minute fast charging.

How many solid-state battery patents does Toyota have?

Toyota holds far more solid-state battery patents than other automakers. Over the past three years, Toyota registered over 8,000 solid-state battery patents. Many are assigned jointly with Idemitsu. Hyundai, Kia and Honda are actively researching solid-state battery innovation.

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.

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