



Toyota solid state battery supplier

Will Toyota make solid-state EV batteries?

Last October, Toyota announced signing a deal with Japanese petroleum company Idemitsu Kosanto mass produce solid-state batteries. The collaboration will focus on sulfide solid electrolytes, a promising material for EV batteries. According to Toyota, the two companies have been working together on materials development since 2013.

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.

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 produce batteries in-house?

Toyota both produces batteries in-house and collaborates with partners for the development and supply of batteries. This collaborative structure will enable us to share knowledge and establish a stable supply system to meet the increased production of electrified vehicles. In 1996 we established what is today known as Prime Earth EV Energy.

Which automakers are pursuing solid-state battery innovation?

Hyundai, Kia and Honda are actively researching solid-state battery innovation. Other automakers are working with external battery manufacturers to take this step forward. To date, Tesla has not announced any solid-state battery plans.

Which companies are developing semi-solid-state batteries for premium EVs?

Mercedes-Benz is developing semi-solid-state batteries for premium EVs. Chinese manufacturers like BYD and CATL are already using semi-solid-state batteries in production models. Hyundai and Samsung SDI are investing in solid-state battery research for mass-market EV applications.

1 · 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 ...

Toyota and Idemitsu Kosan partner to build a lithium sulfide plant for all-solid-state EV batteries, boosting Japan's battery supply chain. Set for 2027-2028, this \$142M facility aims to accelerate solid-state battery



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production ...

The company integrates high-precision talents in battery materials, cells, systems and other fields, focusing on high-energy density, high-safety, high-power, wide-temperature range, long-life hybrid solid-liquid electrolyte batteries and all-solid ...



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