



# What are toyota solid state batteries made of

What is a Toyota solid-state battery?

Toyota solid-state batteries have a solid electrolyte, allowing for faster movement of ions and a greater tolerance of high voltages and temperatures. These qualities make solid-state batteries suitable for rapid charging & discharging and delivering more power in a smaller form. The trade-off, until now, has been an expected shorter battery life.

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.

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.

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.

Does Toyota have a battery company?

The joint venture will supply batteries not only to Toyota but broadly to all customers. By 2021, Toyota had a portfolio of over 1,000 patents in solid-state batteries alone and was leading the technology in terms of patent count. Toyota further announced an investment of \$13.5 billion by 2030 in batteries, including solid-state batteries.

Can Toyota improve the durability of Li-ion solid-state batteries?

Long seen as a potential game-changer for BEVs, Toyota has made a technological breakthrough in its quest to improve the durability of Li-Ion solid-state batteries. Toyota solid-state batteries have a solid electrolyte, allowing for faster movement of ions and a greater tolerance of high voltages and temperatures.

Our first solid-state battery is expected to offer 20% increase in cruising range 4 and a charging time of 10 minutes or less 1. Moreover, a higher specification Li-ion solid-state battery with 50% more driving range than the "Performance" ...



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