

# Toyota solid state battery specs

Does Toyota have a solid-state EV battery?

Toyota reveals its solid-state EV battery technology which claims to have a 745 mile range and 10 minute charging time. Solid-state batteries can reduce the carbon emissions of electric vehicle (EV) batteries by 39%, but it needs 35% more lithium.

Will Toyota introduce solid-state batteries in 2027?

Toyota aims to introduce solid-state batteries in 2027 that are capable of ultra-fast 10-minute recharge times from 10 to 80 percent state of charge. Toyota's pursuit of solid-state battery technology represents a significant advancement in the electric vehicle (EV) sector, but it is not without its challenges.

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.

When will solid-state batteries leave Toyota?

However, Toyota has been relatively consistent in predicting that its first mass-produced solid-state batteries would leave the factory in the latter half of the 2020s. In recent years, Toyota has claimed that it will have solid-state batteries on the road in 2027.

Should Toyota make a solid-state battery?

Solid-state battery materials have higher energy densities too, which means that for the same weight, you can store more power. Should Toyota follow through and deliver, it would move the company to the leading edge of electrification. With all that said, bold claims haven't yet translated into real-world products yet.

How long does a Toyota battery last?

Toyota announces a solid-state battery breakthrough with a 1,200km range & 10-min charge. Our deep-dive explains the tech & includes an interactive calculator.

Toyota's All-solid-state-battery. Courtesy of Toyota. Toyota recently announced its commitment to the electric vehicle (EV) market. The company is working on a selection of groundbreaking technologies to facilitate its transformation into a ...

1 &#0183; 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 ...

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