

Porsche solid state battery 800 miles

Does Porsche have a solid-state battery?

Porsche has increased investment in solid-state battery technology to create a battery with 50% greater energy density, meaning it can hold a charge for much longer than most other EVs. The technology could also lead to faster charging times.

Can solid-state batteries be integrated into a car?

Despite all the advantages of the technology, the industrialization of solid-state batteries faces several challenges, including the integration of the battery into the vehicle. The main problem: Solid-state batteries "breathe." With a lithium metal anode, the expansion and shrinkage can be up to ten centimeters on the battery system level.

What is a solid-state battery (SSB)?

This is where the solid-state battery (SSB) comes into play. Often regarded as a revolutionary development in battery technology, this battery type solves a number of existing problems by enabling higher ranges and lower charging times while being safer and more durable.

Are solid-state batteries a problem?

The main problem: Solid-state batteries "breathe." With a lithium metal anode, the expansion and shrinkage can be up to ten centimeters on the battery system level. A solution must therefore be found to accommodate such volume changes within an otherwise rigid vehicle frame. Another key challenge is the production of solid-state batteries.

Will Porsche make electric cars more accessible?

These goals, combined with the fact that Porsche is a well-known luxury car brand, could increase the sales of electric cars overall. The announcement comes as top EV manufacturers like Tesla and Ford have made electric cars more accessible by lowering prices.

What is a solid-state battery?

In a conventional battery cell, the separator consists of multi-layered plastic films, and the electrolyte is a mixture of flammable solvent and lithium salt. The solid-state battery concept replaces, at least in part, the separator and the liquid electrolyte with a solid electrolyte that has significantly better safety properties.

Das geschieht nicht zuletzt auch durch den sukzessiven Einbau von Festelektrolyten, so dass die sogenannten „Semi-Feststoffbatterien“ („semi-solid-state batteries“) entstehen.



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