

OverviewHistoryMaterialsUsesChallengesAdvantagesThin-film solid-state batteriesInnovation and IP protectionA solid-state battery (SSB) is an electrical battery that uses a solid electrolyte (solectro) to conduct ions between the electrodes, instead of the liquid or gel polymer electrolytes found in conventional batteries. Solid-state batteries theoretically offer much higher energy density than the typical lithium-ion or lithium polymer batteries.

The new battery technology, which promises increased driving range, quicker charging, and efficiency, is being developed by the carmaker in collaboration with US-based ...

The Taiwan-based EV company ProLogium has developed the world's first solid-state battery with a silicon composite anode, which is capable of charging from 5 percent ...

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The Taiwan-based EV company ProLogium has developed the world's first solid-state battery with a silicon composite anode, which is capable of charging from 5 percent to 60 percent--or 186...

Despite many proclamations, it is not Toyota or any other automaker that crafted the first production vehicle with a true solid-state battery, but rather Mercedes-Benz.

Mercedes-Benz is testing the world's first production EV with a solid-state battery, promising to deliver over 621 miles of driving range. Mercedes solid-state battery ...

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Mercedes-Benz has officially begun real-world testing of an EQS prototype powered by a lithium-metal solid-state battery, a major leap from conventional lithium-ion ...

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