

What is high performance battery (HPB)?

A team of scientists working for Bonn-based company High Performance Battery (HPB), led by Prof. Dr. G  nther Hambitzer, has achieved a decisive breakthrough in battery and storage technology with the development of the world's first solid-state battery with outstanding properties to production readiness. Courtesy of High Performance Battery (HPB)

Is HPB solid state electrolyte safe?

By using the HPB solid state electrolyte developed by us, the performance of our battery will remain almost constant over its lifetime. No matter how heavy the battery is used. Our battery technology is safe because our HPB solid state electrolyte is non-flammable and the battery is non-explosive.

What is HPB solid-state battery & HPB electrolyte?

Overall, HPB solid-state batteries and HPB solid-state electrolyte make an important contribution to the energy and mobility transition and to reducing dependence on raw materials. While the annual demand for storage was still 180 gigawatt-hours in 2018, it is expected to exceed 2,000 gigawatt-hours by 2030.

Why should you choose HPB solid-state battery?

As a new basic technology, our HPB solid-state battery makes an important contribution to this. The combination of its properties is a "game changer" and a success factor for the success of the energy transition. The characteristics of our HPB solid-state electrolyte have already been confirmed by independent research institutes.

What makes HPB a good battery?

For the automotive industry, which develops its own high-performance rechargeable batteries, HPB provides its safe, robust and outstandingly conductive HPB solid-state electrolyte. In this way, the HPB solid-state electrolyte ensures that sufficient power is available even at extreme temperatures.

Are HPB batteries safe?

Our battery technology is safe because our HPB solid state electrolyte is non-flammable and the battery is non-explosive. No critical raw materials are needed for production. This also improves the environmental balance by more than half compared to conventional lithium-ion batteries.

The French government has been given the go-ahead from the EU Commission to subsidise research and development of solid-state batteries for electric vehicles with the Taiwanese company ProLogium. The European ...

The company High Performance Battery (HPB) has developed the world's first solid-state battery whose core - unlike all other solid-state battery projects - is the result of a chemical reaction ...

TEUFEN, Switzerland, May 31, 2021 /PRNewswire/ -- An important milestone has been reached: The company High Performance Battery (HPB) has developed the world's first solid-state battery whose core ...

Bonn, Germany-based High Performance Battery (HPB), a startup specializing in the research and development of high-tech batteries, has developed what it reports to be the world's first solid-state battery ready for ...

A team of scientists working for Bonn-based company High Performance Battery (HPB), led by Prof. Dr. G&#252;nther Hambitzer, has achieved a decisive breakthrough in battery and storage technology with the development ...

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