

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.

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.

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.

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.

Why should you choose HPB solid-state batteries in winter?

Where other batteries without external battery heating give up, the HPB Solid-State Battery is still in its comfort zone: Even at -20 °C, the extractable capacity is more than 90 % - tested at a robust discharge rate (1C). This is a real game changer for the use of batteries in winter. Higher battery standards.

The list of positive features of the HPB solid-state battery is long: The innovative battery technology of the High Performance Battery has an extremely long service life without loss of performance at almost constant capacity. Furthermore, the solid state battery is resistant to deep discharge and fast charging, the solid ion conductor is non ...

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

development ...

NEW YORK, NY / ACCESSWIRE / December 6, 2024 / New to The Street, the renowned financial and business television program, is excited to announce the premiere of Episode 614, airing on Bloomberg ...

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 ...

The race to a solid-state battery EV future is on, with Nissan, Hyundai and Toyota among those competing to debut a vehicle powered by solid-state batteries. Nissan is currently developing prototypes at its dedicated solid ...

Safety: The new HPB solid-state electrolyte is non-flammable and thus considerably safer than the flammable liquid electrolytes of conventional lithium-ion batteries. Sustainability: The HPB solid-state battery shows a 50 percent better environmental balance compared to current lithium-ion technology. This makes it the "green key to the ...

The Bonn-based company High Performance Battery (HPB) has achieved a decisive breakthrough in battery and storage technology: a team led by Prof. Dr. G&#252;nther Hambitzer has developed the world's first solid-state battery with outstanding properties to production readiness. The applications range from stationary storage for home and industrial ...

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Whereas solid ion conductors are usually inserted into the battery as prefabricated parts, the HPB solid ion conductor is first created in the battery cell, similar to a "two-component glue". As a result, this technology elegantly solves significant hurdles for the series production of solid-state batteries as a possible successor technology to ...

2 Fraunhofer ISI (2022): Solid State Battery Roadmap 2035+. ... Diese Kapa-zit&#228;t kann vollst&#228;ndig, d. h. von 0-100 % State of Charge genutzt werden. Der HPB Feststoffakku ist nicht nur tiefentladefest, sondern auch schnellladef&#228;hig: 2C/2C (also halbst&#252;ndlich) laden/entladen sind als Dauerbelastung m&#246;glich, die Minutenbelastbarkeit liegt ...

With the HPB Solid-State Battery, which offers safety, an enormous battery cycle life and up to 50% better environmental balance, a new basic technology for energy storage has been created. HPB Battery Technology is licensed to manufacturers and distributors worldwide by application and geography. These companies independently fulfil the demand ...

Den Bonn-baserede virksomhed High Performance Battery (HPB) h&#230;vder at have opn&#229;et et kvantespring i batteriteknologi. ... Mens konventionelle lithium-ion-batterier skal udskiftes efter omkring 1.250 ...

Yes, it was a pleasure for us. Yes, let's shape the energy transition together! ??? Last night, our CEO Dr. Sebastian Heinz and CFO Frank Collatz had the opportunity to showcase the cutting-edge HPB Technology at an inspiring event at Hudson Yards in NYC. It was a fantastic setting to share HPB | High Performance Battery Holding AG's role in advancing scalable battery storage ...

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