



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.

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.

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  $-20\text{ }^{\circ}\text{C}$ , 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.

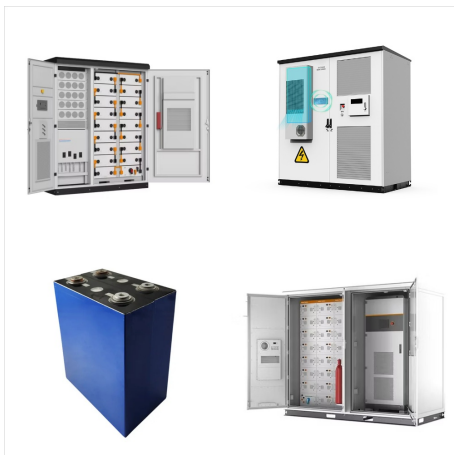
What makes HPB a good battery?

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.

# HPB SOLID STATE BATTERY BARBADOS



The advantages of the HPB solid-state battery over conventional batteries include its innovative technology, conferring it an extremely long service life with no loss of power ??? while maintaining an almost constant capacity. In addition, the solid-state battery is resistant to deep discharge and fast charging and, most importantly, the



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



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 energy

# HPB SOLID STATE BATTERY BARBADOS



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



An open, balanced portfolio covering multiple storage technologies ??? lithium, sodium, even solid-state when mature ??? safeguards our energy security for decades to come. Adopting disruptive storage is imperative ???



HPB plans to start production of its solid state battery in Switzerland. /HPB German battery start-up High-Performance Battery (HPB) claims to have reached a breakthrough in battery technology by lifting its solid-stat. This content has been archived.

# HPB SOLID STATE BATTERY BARBADOS



The Bonn-based start-up company High Performance Battery has achieved what is believed to be a significant breakthrough in battery and storage technology. A team led by prof. Dr G nther Hambitzer has developed the world's first solid-state battery, with what are said to be outstanding properties, to series production readiness. Its advantages are mainly that no ???



While conventional lithium-ion batteries have to be replaced after about 1,250 charging cycles ??? with hourly charging and discharging ??? the HPB solid-state battery currently has at least 12,500 charging cycles with a comparable load, said HPB.



NEW YORK, NY / ACCESSWIRE / October 2, 2024 / New to The Street is thrilled to announce the commencement of filming in NYC this November, showcasing HPB's groundbreaking solid-state battery



# HPB SOLID STATE BATTERY BARBADOS



??? Quantum leap in solid-state batteries . Media Materials. ??? HPB Logo RGB. ??? HPB Logo CYMK. ??? HPB Battery cell. ??? HPB Battery module. ??? Portrait CEO Dr. Sebastian Heinz . Videos. ??? Drop-in production for solid-state batteries // Presentation @ TechBlick. ??? Sustainability & Battery Ageing in 90 Seconds . Audios



Bonn (Germany) 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 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 ???



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

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High Performance Battery (HPB) in Bonn, Germany has achieved a major breakthrough in battery and storage technology with the world's first solid-state battery that is production ready. This new technology could be applied to stationary storage, charging infrastructures, and the automotive industry.



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-state battery facility, with a goal of starting mass production of vehicles equipped with the advanced technology by 2028.

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The HPB Solid-State Battery is characterized by its non-flammability, extreme durability, and significantly improved environmental properties - and is already ready for series production thanks to an innovative production process. High Performance Battery Technology GmbH, based in Bonn, Germany, is a wholly owned subsidiary of High Performance

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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



The HPB Solid State Battery can help solve this dilemma. Against the mainstream until the time is right. Times are changing. Today, the urgency of an energy transition towards sustainability is recognised. For a long time, however, other problems seemed to take priority. Anyone who wants to develop a new basic technology needs staying power



# HPB SOLID STATE BATTERY BARBADOS



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 tonight on Bloomberg Television at 9:30 PM PST. This episode features an exclusive interview with Sebastian Heinz, CEO of HPB High Performance Battery AG, ???



Solid-state battery with 50% better environmental balance on short way to production, High Performance Battery. An important milestone has been reached: The company High Performance Battery (HPB) has developed ???

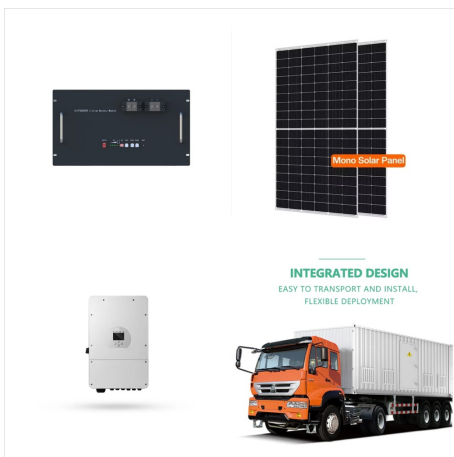


HPB Solid-State Battery Engineered to store renewable energy in a safer and more sustainable way. High Performance Battery Technology GmbH (HPBT) has developed an advanced solid-state battery that offers safety, a tremendous battery lifetime and up to a 50 % better environmental balance.

# HPB SOLID STATE BATTERY BARBADOS



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



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



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 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 ???

# HPB SOLID STATE BATTERY BARBADOS



Den Bonn-baserede virksomhed High Performance Battery (HPB) hævder at have opnået et kvantespring i batteriteknologi. Mens konventionelle lithium-ion-batterier skal udskiftes efter omkring 1.250 opladningscyklusser har HPB solid state-batteriet mindst 12.500 opladningscyklusser med en sammenlignelig belastning. Da disse celler endnu ikke



Solid-state battery with 50% better environmental balance on short way to production, High Performance Battery. An important milestone has been reached: 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 within the battery.