

Can blue solutions improve solid-state lithium metal batteries?

work for Blue Solutions on two projects aimed at improving solid-state lithium metal batteries. Blue Solutions, a precursor and manufacturer of solid-state electric batteries using the lithium metal and polymer technology, and entity of the Bollor Group, has signed a scientific collaboration agreement with CSEM, a research a

What is Bollor Group doing with battery-swapping technology?

Bollor Group is also exploring battery-swapping technologies for 24-hour operations, particularly in industries like container trucking. "Swapping batteries is easy with our batteries as they don't have cooling system, making the swapping operation very simple, such as plug & play", Bouveret adds. What about market strategies?

Is blue solutions a solid-state battery manufacturer?

Blue Solutions remains the only European producer of solid-state batteries. In Hannover Bluebus showed both models in its portfolio: the 6-meter and 12-meter battery electric bus. "The difference between our solid-state batteries and lithium-ion batteries is in the electrolyte: in every battery we use, it's liquid.

How long does it take to charge a Bollor Group battery?

Looking ahead, Bollor Group is working on the next generation of batteries. "Today our batteries can be charged in 4 to 5 hours. But we are working on a next generation of batteries that can be charged in 20 minutes and will increase energy density by 50 percent. Today our 12-meter buses have 380 km range on one charge.

When did Bollor Group start producing LMP batteries?

Bollor Group started its studies at the end of the 1990s and developed a first pilot line in 2001 in Quimper. Hydro Quebec had explored the technology since 1995. Subsidiaries of both companies merged in 2007 and based on the two rights of patents, we started establishing 2012 the first lines of production of our LMP batteries.

Who makes solid-state batteries for electric vehicles?

They are the only manufacturer of solid-state batteries for electric vehicles on an industrial scale - and yet they are hardly in the spotlight: French Bollor Group subsidiary Blue Solutions developed and commercialised batteries with solid-state electrolyte years ago. Their most prominent customer is Daimler.

A solid-state technology with no risk of thermal runaway for a battery with constant capacity throughout its lifespan, free from rare earth metals and cobalt. Independent electro-technical box. The rack's safety and balancing systems, and those connecting it to converters, are grouped together in a single independent component for greater ...

Figure 61. Bolloré BlueCar in France, with Solid State Battery Developed for a CarSharing Service
 Figure 62. Bollor's Solid-State Batteries for Electric Cars
 Figure 63. Bollor Solid State Battery Technology
 Figure 64. Bollor All-Solid ...

Bolloré Group executives argue that its solid-state design makes it much safer than the standard lithium-ion batteries used in Nissan's Leaf and Tesla Motors' Model S, which contain flammable ...

Works are underway at Bolloré for the introduction of a new generation of solid-state batteries with a 20-minute charging time and 50% higher energy density. Additionally, Bluebus might be eyeing future expansion of its ...

Solid-State Battery Summit 2023; IAA Mobility 2023; Rho Motion Live Europe 2023; Battery Show North America 2023; Fastmarkets European Battery Conference 2023; Batteries Event Lyon 2023; Battery Research Symposium - Hydro Québec; Li-ion Battery Europe 2023- Budapest, Hungary; Battery Innovation Days 2023- Bordeaux, France

The all-solid-state battery sector is the technology that will be the performance benchmark. It will make possible the mass production of clean electric transport. Blue Solutions' technology is based on decades of expertise that has made it a ...

Chinese Solid State Battery Development: Oxide Electrolytes Lead the Way. Domestic enterprises, mirroring European trends, primarily utilize oxides as the electrolyte to propel the research and development of solid-state batteries. According to incomplete data, post-2022, several Chinese automakers began incorporating semi-solid-state batteries ...

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The Bolloré Bluecar is a small four-seat, three-door electric car supplied by Bolloré, designed by Pininfarina and manufactured by Ccomp in Bairo, Italy, under a joint venture owned by Bolloré and Pininfarina called Véhicule Électriques Pininfarina Bolloré (VEPB).The car has a 30kWh lithium metal polymer (LMP) battery, coupled to a supercapacitor, that provides an electric ...

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 Figure 64. Bollor All-Solid Cell Benefits
 Figure 65. Bolloré Extrusion of Ultra-Thin Film Anode, Electrolyte, and Cathode Layers ...

Blue Solutions, a subsidiary of the Bolloré Group, stands out from its competitors by offering a world first: the fully solid-state and cobalt-free Lithium Metal Polymer (LMP®) battery. This new technology

offers a high level of safety and performance, with no climate control requirements, for mobility and energy storage applications.

The all-solid-state battery sector is the technology that will be the performance benchmark. It will make possible the mass production of clean electric transport. Blue Solutions' technology is based on decades of expertise that has made it a market leader, providing all-solid-state batteries for bus, off-highway and heavy goods vehicle ...

[September 28, 2023, Paris, France / Taipei, Taiwan] Blue Solutions has signed a memorandum of understanding with Hon Hai Technology Group (Foxconn) and its subsidiary, SolidEdge Solution Inc., to jointly develop a solid-state battery ecosystem for the electric two-wheeler market. Blue Solutions is a Bolloré Group entity and global industrial-scale designer ...

Bolloré?5?17??,Blue Solutions???Grand
Est????????????????????,????2030????Blue
Solutions????2032????1500????,????22??(????172.77?),????25GWh,???...

UNIQUE ALL-SOLID-STATE BATTERY. Over more than twenty years of R& D and based on its expertise in paper and ultra-thin plastic films, BlueSolutions has developed batteries and energy storage solutions based on a unique advanced technology: ...

"The close collaboration with SIPBB's Swiss Battery Technology Center will enable Blue Solutions to strengthen the three pillars of its DNA - Safe, Clean and Smart solutions. This is possible through the joint development of accelerated aging tests for all-solid-state battery cells, the automatic disassembly of battery packs and modules

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