

Where are Bollor's batteries made?

The French solid-state cell technology goes back to 2011. Some readers may remember Bollor's relying exclusively on batteries based on a lithium metal polymer (LMP) developed in-house, which claimed market maturity in 2012. The batteries are manufactured at the headquarters in France and Canada.

When did Bollor's start producing LMP's batteries?

Bollor's 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 in 2012 the first lines of production of our LMP's batteries.

What is a solid-state battery?

In the global race for innovation, the "solid-state" battery is recognized as one of the most promising future paths. The main characteristic of these batteries is its solid electrolyte, as opposed to conventional lithium-ion batteries where the electrolyte is liquid.

Why should you choose a solid-state battery?

The point why everybody is looking for solid-state status, that's because you will be able to get rid of the thermal runaway. Solid-state is safer than lithium-ion battery technology. We also get the benefits of the lithium metal anode, which has specific energy ten times higher than the graphite one used in lithium-ion batteries.

Will France use a solid-state battery from Foxconn's SolidEdge solution?

According to the agreement, the French may now utilise battery materials from Foxconn subsidiary SolidEdge Solution. In its statement, Foxconn, or Hon Hai, also mentions a solid-state battery "ecosystem" and called Blue Solutions' GEN4 technology "exclusive". The French solid-state cell technology goes back to 2011.

VW says its deal with QuantumScape is still on track, and all things are running as planned after investing \$300 million in the startup. The deal was signed in 2018, with the promise of VW's EVs ...

01. 02. Their all-solid-state construction provides many advantages in terms of efficiency and safety: Our battery plants in France and Canada. 7kWh module Blue LMP's; 250 01 -- 02 -- 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

Bollor's 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 ...

Blue Solutions, a precursor and manufacturer of solid-state electric batteries using the lithium metal and polymer technology, and entity of the Bolloré Group, has signed a scientific ...

Solid-State Battery Players -Worldwide 2021/2022 Source: Extract of P3 Group Presentation, Solid State Battery Summit, August 2-3 2022. Blue Solutions is well positioned to capture growth as the only commercial player in SSB market. In a realistic scenario, Blue Solutions' Gen4 could target ~15 to 20 GWh batteries sales by 2030

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.

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 ...

SCALABLE ALL-SOLID-STATE ARCHITECTURE Characteristics: Blue LMP; 250 and Blue LMP; 400 Blue LMP; 250 Floor area: 17.5 m²; Total MWh: 2 MWh Blue LMP; 400 Floor area: 19.4 m²; Total MWh: 3.1 MWh Electrical specifications 250 400 Cells LMP; (Blue Solutions) Energy (@ C/4 - D/2) 252 kWh 392 kWh Battery round trip efficiency (DC-DC) Up to 98%

On the strength of its LMP, battery technology, the Group is expanding into mobile and stationary applications using electric batteries. Through IER and Polyconseil, it disposes of an expertise in solutions for the storage of electricity. Find out more. Films plastiques

A solid state battery uses a solid electrolyte instead of a liquid or gel electrolyte found in traditional lithium-ion batteries. This design enhances energy density and safety. Solid state technology can reduce the risk of fires and extends the lifespan of devices. Solid state batteries operate by allowing ions to move between the anode and ...

Real-World Applications. Electric Vehicles: Manufacturers, such as Toyota and Volkswagen, are investing in solid state battery technology for enhanced range and reduced weight.; Consumer Electronics: Companies like Samsung and Apple explore solid state batteries for smartphones and tablets, aiming for longer usage times.; Manufacturing Costs: High ...

Blue Solutions, a unit of French conglomerate Bolloré, already produces solid-state batteries for Daimler electric buses. Its new smaller battery for cars with a 20-minute charging time aims to have a range of 1,000 km (621 miles) and tests have shown energy density 30%-40% higher than the top lithium-ion cells, Chief Executive Richard Bouveret told Reuters.

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. ...

Taiwan's mass-scale manufacturer, Foxconn, has signed its next MoU with an e-mobility company. Blue Solutions by French Bolloré has agreed to join forces to develop solid-state batteries for two-wheelers with a ...

The Bolloré Bluecar is a small four-seat, three-door electric car supplied by Bolloré, designed by Pininfarina and manufactured by Cecom 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 ...

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: ...

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