

Solid state lithium ion battery companies

What is a solid-state lithium-metal battery?

Unlike traditional lithium-ion batteries, QuantumScape's Solid-State Lithium-Metal Battery features an innovative anode-less design and a proprietary solid ceramic separator. The technology eliminates the need for graphite or silicon anode host material and replaces the organic separator with a solid ceramic one.

Where are solid-state batteries made?

The only industrialized platform for solid-state battery technology. Founded in 2016, the company is headquartered in Beijing and has three production bases in Fangshan, Beijing, Liyang, Jiangsu and Huzhou, Zhejiang.

Who makes lithium ion batteries?

Specializing in the production of lithium-ion batteries for electric vehicles and energy storage systems. In 2021, CATL has a market share of 32.6% and is the world's largest manufacturer of lithium-ion batteries for electric vehicles. With an output of 96.7 GWh, a year-on-year increase of 167.5%.

Are solid-state batteries a good alternative to lithium-ion batteries?

Solid-state batteries (SSBs) present a compelling alternative to traditional lithium-ion (Li-ion) batteries. SSBs offer advantages in terms of size, weight, safety, capacity, and recharging speed. Due to the absence of a liquid electrolyte, they can be smaller and lighter, making them ideal for applications including electric vehicles (EVs).

Where are all-solid-state lithium batteries made?

The company currently produces 20 Ah multi-layer all-solid-state lithium metal batteries on its continuous roll-to-roll production line based in Louisville, Colorado. However, the all-solid-state batteries it currently produces are dimed as prototypes that are currently being validated by the company's strategic partners.

Is solid-state battery technology a game-changer for the EV industry?

Solid-state battery technology is being hailed as a potential game-changer for the electric vehicle (EV) industry. It promises significant advantages over traditional lithium-ion batteries, including better energy storage, faster charging times, and improved safety.

For detailed company introductions, technologies, products, advantages, and comments, refer to the survey section below. We provides an in-depth analysis of the top 20 manufacturers of solid-state batteries, based on ...

Sodium-ion batteries, solid-state batteries, and fuel cells in the field of energy storage systems, electric vehicles, EVs, power tools, drones, and other areas have great prospects for development. Battery companies around ...

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This article will delve into the top 15 solid-state battery manufacturers worldwide in 2025, covering their core profiles, solid-state battery technology R& D progress, and the latest market dynamics.

Further, Solidion's all-solid-state battery platform technology is well-positioned to transform the EV battery space into a solid-state battery industry. Solidion will provide solid-state batteries that can be manufactured at scale using current ...

This article introduces top 10 U.S. companies in solid-state battery industry, including their main products, company profiles, and latest developments.

Founded in 2006, ProLogium Technology is an energy innovation company focused on solid-state battery research, development, and manufacturing, that provides next-generation battery ...

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The company is actively researching and developing solid-state battery technology, which promises improved safety, higher energy density, and faster charging times compared to conventional lithium-ion batteries.

Solid-state batteries represent a cutting-edge advancement in battery technology, replacing the liquid or gel electrolytes found in traditional lithium-ion batteries with ...

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Solid-state batteries are the next big thing in the EV industry, and here are 15 automakers are battery manufacturers striving to make a mark.

Developer of solid-state lithium-ion battery. The company cathode, and metallic lithium anode, and is separated by a solid electrolyte layer that claims to offer higher energy ...

This company overview features profiles of industry innovators and covers the characteristics, types, and highlights of their solid-state battery technology.

Solid-state batteries are all set to replace lithium batteries, and here are 15 companies that leading the way in a bid to make it big.

ION's solid-state battery platform delivers the safety, performance, and reliability that next-generation technologies demand. Built to solve the limitations of conventional lithium-ion, our architecture is inherently

...

To get a clearer picture of how the top solid-state battery companies stack up, we've put together a table that highlights their key strengths, innovations, and market positions.

In 2024, companies like Solid Power, QuantumScape, Samsung SDI, and Redway Power are leading groundbreaking advancements, with commercial production targeted between 2027 and 2030. This article unveils ...

Some solid-state designs use excess lithium to form the anode, but the QuantumScape design is "anode-free" in that the battery is manufactured anode free in a discharged state, and the ...

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Lithium-ion battery manufacturer Electrovaya has announced breakthrough performance results for its proprietary solid-state hybrid battery (lithium metal) technology.

The company is a global leader in battery manufacturing, focusing on advanced lithium-ion and solid state battery technologies. LGES serves key industries such as electric vehicles (EVs), energy storage systems ...

ION Storage Systems experts have developed an advanced solid-state battery that can survive over 1,000 charge cycles without degradation.

In this article, we explore the top 10 solid state battery manufacturers in the world that are driving innovation and shaping the future of energy storage.

Solid-state batteries (SSBs) are poised to transform energy storage, particularly in the EV industry. Unlike conventional lithium-ion batteries that use liquid or gel electrolytes, SSBs rely on a solid electrolyte, offering significant performance ...

Founded in 2006, ProLogium Technology is an energy innovation company focused on solid-state battery research, development, and manufacturing, that provides next-generation battery solutions for electric vehicles in consumer ...

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