

Global Solid State Batteries Market Growth (Status and Outlook) 2024-2030

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Abstracts

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According to this study, the global Solid State Batteries market size will reach US\$ 498.4 million by 2030.

Chemical energy storage, including lead acid batteries, nickel system batteries, and lithium ion batteries (LiBs), is considered to be the most promising energy storage technology for industrialization. Among these, LiBs have many advantages such as light weight, high energy density, high power density, and long life, and they are overwhelmingly preferred by designers for use in portable electronic devices such as cell phones and laptops. However, overcharging or short-circuiting can lead to high temperature and result in fire or explosion due to the presence of flammable organic electrolytes. Fires and explosions of LiBs have been reported throughout the world. The developments of electric vehicles (EVs) and large-scale energy storage devices for new kinds of power stations greatly expand the market for LiBs, meanwhile, stricter safety requirements apply to LiBs. Since large numbers of LiBs are packed together in EVs or power stations, fire or explosion in an LiB could be disastrous. Safety has become the main obstacle for the wide application of LiBs. To meet this issue, All-Solid-State Battery have entered the field.

A solid state battery is composed mainly of cathode, anode, and solid electrolyte, as developed during the latter half of the 20th century. All-Solid-State Battery have a simpler structure than the traditional LiBs, and the simplified structure with a solid electrolyte enables higher energy density. Solid electrolytes not only conduct Li⁺ ions but also serve as the separator, as shown in Figure below. In All-Solid-State Battery, no organic liquid electrolyte, electrolyte salt, separator, or binder is required, which

dramatically simplifies the assembly process. The operational principle of All-Solid-State Battery is no different from the traditional LiBs. In the charge process, lithium ions deintercalate from the cathode material and transport to the anode through the electrolyte, while electrons drift to the anode by the external circuit. Lithium ions combine with electrons to form more complete lithium atoms. The discharge process is just the reverse.

The global Solid State Batteries key players are mainly located in US, Europe, Japan, South Korea and China, include the BMW, Hyundai, Dyson, Apple, CATL, Bollor?, Toyota and Panasonic, etc.

This report presents a comprehensive overview, market shares, and growth opportunities of Solid State Batteries market by product type, application, key players and key regions and countries.

Segmentation by product type:

Polymer-Based Solid State Batteries

Solid State Batteries with Inorganic Solid Electrolytes

Segmentation by Application:

Consumer Electronics

Electric Vehicle

Aerospace

Others

This report also splits the market by region:

United States

China

Europe

Other regions:

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

BMW

Hyundai

Dyson

Apple

CATL

Bollor?

Toyota

Panasonic

Jiawei

Bosch

Quantum Scape

Ilika

Excellatron Solid State

Cymbet

Solid Power

Mitsui Kinzoku

Samsung

ProLogium

Front Edge Technology

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