

Fibre Batteries Market By Type (Thin-Film, Printed, Others), By Rechargeability (Primary, Secondary), By Capacity (Below 10 mAh, 10 mAh -100 mAh, Above 100 mAh), By End Use (Consumer Electronics, Smart Packaging, Smart Cards, Medical Devices, Wireless Sensors, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

Market Report | 2023-01-01 | 281 pages | Allied Market Research

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Report description:

The global fibre batteries market was valued at \$62.5 million in 2021 and is projected to reach \$422.1 million by 2031, registering a CAGR of 21.1% from 2022 to 2031.

Fibre batteries are millimeter-thin batteries based on fibres that can be woven into items of clothing or used to create highly flexible, wearable electronics. The economic progress around the world has led to various changes, such as improvements in life support and health, access to goods and a wide variety of foods, hundreds of millions of jobs created, and others which are particularly noticeable in emerging economies. The home healthcare industry has witnessed significant growth in recent years, primarily due to the rising geriatric population, increasing prevalence of chronic disease, and the availability of advanced medical devices which include wearable medical devices that enable the delivery of quality care in non-hospital areas. The above-mentioned positive factors are the major reason for the growth of the fibre batteries market.

The increase in the investment of the government and policies to develop smart cities & smart electronic wearables have driven the Internet of things industry. The increase in awareness regarding the advantages of the smart electronic wearable, which helps maintain health and other activities, positively impacts the demand for the fibre batteries market. The above trends and growing demand for smart electronic gadgets will provide ample opportunities to drive the growth of the fibre batteries market during this forecast period.

Fibre batteries are a type of flexible battery hence there are various types of batteries that are flexible and portable and can be utilized in wearable and portable electronic gadgets. These alternative power storage technologies have a high efficiency

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compared to fibre batteries. Furthermore, the commercialization of flexible batteries in recent years has had a negative impact on the development of the fibre batteries market. The abovementioned factor is expected to hamper fibre batteries market expansion during the forecast period.

Fibre batteries are a new variety of batteries that are still under development and have low energy storage value compared to conventional energy storage devices, however, the presence of various advantages in comparison with conventional batteries has led to an increase in investment. However, high costs associated with research and development proficiencies will hamper the development of the market. The stringent regulatory framework in developing economies and lack of standardization will further dampen the development of the market. In addition, large-scale technological and infrastructural limitations will further hamper the development of the market.

The global fibre batteries market analysis is segmented on the basis of type, rechargeability, capacity, end use, and region. By type, the market is divided into thin-film, printed, and others. By rechargeability, the market is divided into primary and secondary. By capacity, it is divided into below 10 MAh, 10 MAh-100 MAh, and above 100 MAh. By end use, it is divided into consumer electronics, smart packaging, smart cards, wireless sensors, and others. By region, the market is segmented into North America, Europe, Asia-Pacific, and LAMEA

Key players in the fibre batteries industry are Saft Batteries, Bren-Tronics, Inventus Power, Navitas Advanced Solutions Group, Ultralife, Lionrock Batteries, Brightvolt Batteries, Hitachi, Planar Energy, and ProLogium. These players have adopted various strategies to gain a higher share or retain leading positions in the market.

Impact of COVID-19 on the global fibre batteries market

The COVID-19 pandemic led to a decline in the demand for the fibre batteries market due to a decline in the demand for power generation across the globe. In addition, the shutdown of manufacturing industries and the demand for power from various industries have a significant impact on the market.

Furthermore, the outbreak of the pandemic has created awareness among the people regarding the advantages of the utilization of fibre batteries as a power source for medical & consumer electronic devices in the LAMEA region which has driven the growth of the global fibre batteries market.

Key Benefits For Stakeholders

-This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the fibre batteries market analysis from 2021 to 2031 to identify the prevailing fibre batteries market opportunities.

-The market research is offered along with information related to key drivers, restraints, and opportunities.

-Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

-In-depth analysis of the fibre batteries market segmentation assists to determine the prevailing market opportunities.

-Major countries in each region are mapped according to their revenue contribution to the global market.

-Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

-The report includes the analysis of the regional as well as global fibre batteries market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Type

- Thin-Film

- Printed

- Others

By Rechargeability

- Primary

- Secondary

By Capacity

- Below 10 mAh

- 10 mAh -100 mAh

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- Above 100 mAh

By End Use

- Consumer Electronics
- Smart Packaging
- Smart Cards
- Medical Devices
- Wireless Sensors
- Others

By Region

- North America

- U.S.

- Canada

- Mexico

- Europe

- Germany

- France

- Italy

- Spain

- UK

- Rest of Europe

- Asia-Pacific

- China

- Japan

- India

- South Korea

- Australia

- Rest of Asia-Pacific

- LAMEA

- Brazil

- Saudi Arabia

- South Africa

- Rest of LAMEA

- Key Market Players

- Bren-Tronics, Inc.

- inventus power

- Navitas Advanced Solutions Group

- Ultralife Corp.

- Lionrock Batteries

- Hitachi Ltd.

- Planar Energy

- Saft Batteries

- Brightvolt Batteries

- ProLogium

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