

Lithium-ion Battery for Consumer Electronics Market By Component (Cathode, Anode, Electrolyte, Separator, Others), By Application (Smartphones, Tablet/PC, UPS, Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2023-08-01 | 388 pages | Allied Market Research

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Report description:

The global lithium-ion battery for consumer electronics market was valued at \$4.9 billion in 2022, and is projected to reach \$18.8 billion by 2032, growing at a CAGR of 14.5% from 2023 to 2032.

A lithium-ion battery is a type of rechargeable battery that uses the reversible reduction of lithium ions to store energy. The battery is made up of several components, including an anode (negative electrode), cathode (positive electrode), separator, electrolyte, and two current collectors.

The lithium-ion battery market has experienced significant growth due to the increase in demand for portable electronic devices and power tools that are utilized in construction & woodworking industries and renewable energy storage solutions. The versatility of lithium-ion batteries and their ability to provide efficient and reliable power make them a preferred choice across these industries. Companies in the market continuously invest in R&D to enhance battery performance, increase energy density, and improve safety features.

Lithium-ion batteries have extensive usage in various industries and applications. In the electrical and electronics sector, it powers devices such as smartphones, tablets, PCs, and uninterruptible power supplies (UPS). In addition, there are also other applications such as medical and power tools where lithium-ion batteries play a crucial role. The lithium-ion battery market is expected to witness further expansion in the coming years with ongoing advancements and innovations. However, the high cost of the battery for large-scale applications, the environmental impact of battery production, and recycling create barriers to the development of the lithium-ion battery for consumer electronics market share in battery industry.

The lithium-ion battery for consumer electronics market is segmented on the basis of component, application, and region. On the basis of component, the lithium-ion battery for consumer electronics market is classified into cathode, anode, electrolyte, separator, and others. By application, it is divided into smartphone, tablet/PC, UPS, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

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Lithium-ion batteries comprise multiple components, each playing a vital role in their performance and capabilities. The cathode material of the battery is crucial for its energy storage capacity. Several cathode materials have emerged as leading choices, including lithium-iron phosphate, lithium-manganese oxide, lithium-nickel-cobalt-aluminum oxide, lithium-nickel-manganese cobalt, and lithium-titanate oxide.

Equally important is the anode, which is typically made of graphite or other carbon-based materials. The electrolyte acts as a conductor, facilitating the movement of lithium ions between the cathode and anode. Lastly, the separator ensures the physical separation of the cathode and anode, preventing short circuits.

UPS is an electrical device that provides temporary backup power to electronic devices during energy outages or disruptions. It is designed to prevent data loss, protect sensitive equipment, and ensure continuous operation in essential applications. The consumer electronics market for UPS has grown due to the increase in reliance on electronic devices in critical applications. The demand for reliable UPS systems, powered by advanced lithium-ion batteries, is driven by cloud computing, remote work environments, and online transactions. This growth presents opportunities for innovative high-energy-density batteries, efficient energy storage solutions, customizable configurations, integrated energy management, and sustainable practices.

The North American lithium-ion battery for consumer electronics market forecast growth is driven by the adoption of residential renewable energy systems and the demand for energy storage solutions. Apple has invested in battery production for consumer products, promoting market growth. The Canadian government supports battery manufacturing and R&D, while Mexico offers easy access to both North American and global markets. Mexico's robust supply chain and supportive government policies have fostered market growth.

Key players engaged in the development and production of Lithium-ion battery for consumer electronics products are CATL, Lithium Werks, EVE Energy Co., Ltd, Johnson Controls, Panasonic, LG Chem, Samsung SDI, Toshiba, Lishen Battery, and Hitachi.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the lithium-ion battery for consumer electronics market size, segments, current trends, estimations, and dynamics of the lithium-ion battery for consumer electronics market analysis from 2022 to 2032 to identify the prevailing lithium-ion battery for consumer electronics 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 lithium-ion battery for consumer electronics 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 lithium-ion battery for consumer electronics market trends, key players, market segments, application areas, and lithium-ion battery for consumer electronics market growth strategies.

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Possible Customization with this report (with additional cost and timeline talk to the sales executive to know more)

- Investment Opportunities
- Upcoming/New Entrant by Regions
- Technology Trend Analysis
- Market share analysis of players by products/segments
- New Product Development/ Product Matrix of Key Players
- Regulatory Guidelines
- Strategic Recommendations
- Additional company profiles with specific to client's interest
- Additional country or region analysis- market size and forecast
- Expanded list for Company Profiles
- Historic market data
- Key player details (including location, contact details, supplier/vendor network etc. in excel format)
- List of customers/consumers/raw material suppliers- value chain analysis
- Market share analysis of players at global/region/country level
- Volume Market Size and Forecast

Key Market Segments

By Component

- Cathode
- Type
- Lithium-Iron Phosphate
- Lithium-Manganese Oxide
- Lithium-Nickel-Cobalt-Aluminum Oxide
- Lithium-Nickel-Manganese Cobalt
- Lithium-Titanate Oxide
- Anode
- Electrolyte
- Separator
- Others

By Application

- Smartphones
- Tablet/PC
- UPS
- Others

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- France
- Italy
- UK
- Spain
- Rest of Europe

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- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Rest of Asia-Pacific
- LAMEA
- Brazil
- South Africa
- Saudi Arabia
- Rest of LAMEA
- Key Market Players
- Toshiba Corporation
- EVE Energy Co., Ltd
- Contemporary Amperex Technology Co., Limited
- Samsung SDI Co., Ltd
- LG Chem
- Lithium Werks
- Johnson Controls International plc
- Panasonic Corporation
- Hitachi, Ltd.
- Lishen Battery

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