

India Button Cell Market Segmented By Letter Code Type (L, S, P, C and Others), By Package Size (4, 5, 6, 7, 9, 10 and Others), By Application (Timekeeping, Electric Meters, Lighting and Others), By Region, and By Competition, 2019-2029

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Abstracts

India Button Cell Market was valued at USD 66.25 million in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 5.84% through 2029. The growing emphasis on health and fitness has resulted in the widespread adoption of wearable devices such as fitness trackers and smartwatches. These devices utilize button cells to power their sensors, displays, and wireless connectivity functionalities. With an increasing number of individuals prioritizing health monitoring and fitness, the demand for these gadgets continues to surge.

Key Market Drivers

Increasing Demand for Electronic Devices

The primary catalyst for the Indian button cell market is the escalating demand for electronic devices. With the steady growth and urbanization of the Indian economy, there is an ever-growing appetite for a wide range of electronic gadgets and appliances. These devices, including wristwatches, calculators, remote controls, and key fobs, heavily rely on button cells as their primary power source. The surge in smartphones, smartwatches, fitness trackers, and IoT devices has further intensified the demand for button cells.

The consumer electronics segment, in particular, has witnessed remarkable growth in India. The rise in disposable income, coupled with evolving lifestyles and preferences,

has resulted in a significant increase in the adoption of electronic devices. Button cells play a crucial role in ensuring uninterrupted power supply in small and compact electronic gadgets, making them highly indispensable. Furthermore, advancements in technology have led to the development of energy-efficient and long-lasting button cell batteries, further driving their demand.

Industrial applications also contribute significantly to the demand for button cells in India. Industries such as automotive, healthcare, and telecommunications rely on these miniature power sources for various applications, including remote monitoring, wireless sensors, and medical implants. As India continues to invest in infrastructure development and industrialization, the demand for button cells in these sectors is expected to witness substantial growth.

Moreover, the Indian government's initiatives to promote domestic manufacturing through the 'Make in India' campaign have incentivized electronics manufacturers to establish production facilities in the country. This has not only stimulated the production of electronic devices but has also bolstered the growth of the button cell market.

In conclusion, the escalating demand for electronic devices, driven by economic growth, evolving lifestyles, and government initiatives, serves as a significant driver for the Indian button cell market. As the consumer electronics and industrial sectors continue to expand, the demand for these miniature power sources is expected to remain robust.

Growing Use of Renewable Energy and Green Technologies

The increasing utilization of renewable energy sources and green technologies stands as a prominent factor driving the India button cell market. As the world grapples with climate change and environmental concerns, there is a concerted effort to transition towards cleaner and more sustainable energy solutions. This transition has led to the development and adoption of renewable energy technologies, such as solar power and wind energy, which rely on button cells for various applications.

One significant application of button cells in the renewable energy sector is their use in solar-powered devices. Solar panels and solar-powered lights often incorporate button cells to store and regulate the energy collected from the sun. These compact batteries play a crucial role in ensuring uninterrupted power supply, particularly in remote and off-grid locations with limited access to the electrical grid. With India's ongoing investments in solar energy infrastructure, the demand for button cells in this sector is expected to witness significant growth.

Furthermore, green technologies, including electric vehicles (EVs) and energy-efficient appliances, are gaining prominence in India. Button cells find application in EV key fobs, tire pressure monitoring systems, and other components that necessitate long-lasting and reliable power sources. As the adoption of electric vehicles and energy-efficient appliances accelerates, so does the demand for button cells.

The Indian government's focus on clean energy and sustainability, exemplified by initiatives like the National Solar Mission and Faster Adoption and Manufacturing of Hybrid and Electric Vehicles (FAME), further reinforces the growth prospects of the button cell market. These initiatives promote the use of renewable energy and green technologies, indirectly bolstering the demand for button cells in associated applications.

In summary, the increasing use of renewable energy and green technologies in India serves as a significant driver for the button cell market. As the country continues to prioritize clean energy solutions and sustainable technologies, the demand for button cells in various applications within these sectors is expected to witness substantial growth.

Increasing Healthcare and Medical Device Usage

The third major driver of the India button cell market is the growing utilization of healthcare and medical devices. With the advancement of the Indian healthcare sector and the aging population, there is an increasing demand for various medical devices that rely on button cells for power. These devices encompass a wide range of applications, including glucose monitors, hearing aids, pacemakers, and infusion pumps.

The aging population in India has resulted in a higher prevalence of chronic diseases and an increased need for monitoring and treatment. Many of these medical devices require compact and reliable power sources like button cells to ensure optimal functionality. The demand for such devices is expected to rise in tandem with the aging population, thereby driving the demand for button cells in the healthcare sector.

Moreover, advancements in medical technology have led to the development of more sophisticated and portable medical devices. These devices are often designed to be patient-friendly, lightweight, and easily transportable. Button cells, with their small size and long-lasting power, are an ideal choice for such applications. The demand for these

advanced medical devices is projected to continue growing, further bolstering the button cell market.

Additionally, the COVID-19 pandemic has underscored the significance of healthcare infrastructure and the necessity for various diagnostic and monitoring devices. Many of the rapid diagnostic tests and portable ventilators used during the pandemic relied on button cell batteries. While the pandemic highlighted immediate needs, it also stimulated investments and innovations in the Indian healthcare sector, which will have a lasting impact on the demand for button cells.

In conclusion, the increasing utilization of healthcare and medical devices, driven by demographic trends and technological advancements, serves as a significant catalyst for the India button cell market. As the healthcare sector in India continues to expand and modernize, the demand for button cells in various medical applications is poised for substantial growth.

Key Market Challenges

Competition from Alternative Power Sources

One of the primary challenges faced by the India Button Cell Market is the intense competition from alternative power sources. While button cells have been the preferred choice for powering small electronic devices for several decades, emerging technologies and alternatives pose a significant threat to their market dominance. Some of these alternatives include rechargeable batteries, energy harvesting solutions, and advancements in energy-efficient electronics.

Rechargeable batteries, such as lithium-ion and lithium-polymer batteries, have gained widespread popularity due to their ability to be recharged multiple times, thereby reducing the need for frequent replacements. This poses a considerable challenge to the button cell market, as both consumers and manufacturers may opt for rechargeable solutions that offer long-term cost savings. Furthermore, the growing environmental concerns associated with disposable batteries have resulted in a greater acceptance of rechargeable alternatives.

Energy harvesting technologies, like solar cells and kinetic energy harvesters, provide sustainable and eco-friendly power sources for small electronic devices. As India places increasing emphasis on renewable energy sources, these technologies are expected to gain significant traction, further diminishing the demand for traditional button cells.

Moreover, advancements in energy-efficient electronics have led to devices with lower power consumption. This trend reduces the frequency of battery replacements, thereby impacting the growth of the button cell market. Manufacturers are continuously striving to develop devices that can operate on minimal power, thereby challenging the conventional need for button cells.

To tackle this challenge, button cell manufacturers must focus on innovation by enhancing the energy density, longevity, and environmental sustainability of their products. Additionally, they may consider diversifying their offerings to include rechargeable button cells or exploring collaborations with alternative power source providers to adapt to the changing dynamics of the market.

Environmental Concerns and Regulation

One of the significant challenges faced by the India Button Cell Market is the increasing awareness of environmental concerns and the stricter regulations surrounding battery disposal and recycling. Button cells, like other batteries, contain hazardous materials such as mercury, cadmium, and lead. Improper disposal of these batteries can lead to soil and water pollution, posing risks to both human health and the environment.

India, like many other countries, has implemented stringent regulations that require manufacturers to take responsibility for the proper disposal and recycling of their products. This not only adds to their operational costs but also carries the potential for fines and damage to their reputation if non-compliance occurs.

Additionally, there has been a rise in consumer awareness of environmental issues, resulting in a preference for eco-friendly products. As a result, manufacturers are under pressure to develop more sustainable and environmentally friendly battery technologies. This challenge necessitates investment in research and development to create greener and safer battery alternatives.

To address this challenge, button cell manufacturers in India must adopt environmentally responsible practices throughout the entire lifecycle of their products, from material sourcing to disposal and recycling. Furthermore, investing in research to develop batteries with reduced environmental impact and exploring opportunities for reusing or recycling battery components are crucial steps. Educating consumers about proper disposal methods and the environmental benefits of responsible battery usage can also contribute to mitigating this challenge.

Price Sensitivity and Cost Pressures

Price sensitivity and cost pressures pose a significant challenge for the India Button Cell Market. Indian consumers, especially in the mass market, exhibit high price consciousness and prioritize affordability when purchasing electronic devices and batteries. This price sensitivity puts pressure on button cell manufacturers to maintain competitive pricing while addressing other cost-related challenges.

The production of button cells involves the use of specialized materials, including rare and precious metals such as silver and zinc. Fluctuations in the prices of these materials can have a significant impact on manufacturing costs. Additionally, compliance with environmental regulations, safety standards, and quality control measures adds to the overall production expenses.

Global economic factors and exchange rate fluctuations can also influence the cost of importing raw materials and components required for button cell production. The Indian button cell market heavily relies on imports, making it susceptible to changes in currency exchange rates and international market dynamics.

To navigate these cost-related challenges, button cell manufacturers in India must focus on operational efficiency, supply chain optimization, and cost-effective sourcing of materials. Innovations in battery technology that reduce reliance on expensive materials can also help alleviate cost pressures. Furthermore, exploring opportunities for localized manufacturing and reducing dependence on imports can provide long-term cost advantages.

In conclusion, the India Button Cell Market faces challenges related to competition from alternative power sources, environmental concerns and regulations, as well as price sensitivity and cost pressures. Overcoming these challenges requires a combination of innovation, sustainable practices, and cost-effective strategies to ensure the continued growth and viability of the button cell industry in India.

Key Market Trends

Transition to Mercury-Free Button Cells

One of the notable trends in the India Button Cell Market is the shift towards mercury-free button cells. Traditionally, button cells have contained mercury as a crucial

component, offering benefits in terms of stability and long-term performance. However, in light of environmental and health concerns associated with mercury, there has been a global drive to eliminate its usage in batteries.

In India, stricter environmental regulations and increased consumer awareness of environmental issues have compelled manufacturers to produce mercury-free button cells. These batteries not only promote eco-friendliness but also adhere to international standards for environmental safety.

The transition to mercury-free button cells aligns with India's dedication to sustainable practices and green technologies. Consumers are increasingly opting for mercury-free batteries, motivated by their desire to minimize environmental impact. Manufacturers are responding to this trend by investing in research and development to create mercury-free alternatives that maintain the performance and longevity of traditional button cells.

As this trend continues, it is likely that mercury-free button cells will become the norm in the Indian market, providing manufacturers who adapt to this change with a competitive edge.

Integration of Advanced Materials and Technologies

Another notable trend in the India Button Cell Market is the integration of advanced materials and technologies to enhance battery performance and efficiency. Button cell manufacturers are continually seeking methods to improve the energy density, lifespan, and overall performance of their products to meet the growing demands of modern electronic devices.

A key area of innovation lies in the utilization of nanomaterials in button cell construction. Nanotechnology enables the development of smaller, more efficient battery components, leading to the creation of thinner and lighter button cells with enhanced power storage capabilities. These advancements are particularly crucial for applications such as wearable devices and IoT sensors, where compact size and long-lasting power are of utmost importance.

Furthermore, advancements in electrode materials, electrolytes, and separator technologies have resulted in button cells capable of operating in extreme temperatures and harsh environments, making them suitable for a broader range of applications, including industrial and automotive uses.

Additionally, ongoing research into alternative chemistries, such as solid-state batteries and lithium-sulfur batteries, holds the potential to revolutionize the button cell market by providing higher energy density, longer lifespan, and improved safety features.

The integration of these advanced materials and technologies underscores the industry's dedication to staying at the forefront of battery innovation, ensuring that button cells continue to meet the evolving needs of electronic devices in India and beyond.

Segmental Insights

Letter Code Type Insights

The C letter code emerged as the dominant segment in 2023. The 'C' denotes a specific size or form factor. Button cells are available in various sizes, each designated by a letter code such as LR44, CR2032, or SR626SW.

Within the 'C' letter code type segment, CR2032 and CR2025 are two prominent battery sizes widely used in diverse electronic devices like wristwatches, calculators, remote controls, and small gadgets. Their widespread popularity can be attributed to their compact size and versatility. As a result, these batteries consistently experience high demand and significantly contribute to the India button cell market.

While CR2032 and CR2025 dominate the market, there is an increasing demand for larger 'C' letter code type button cells such as CR2450 and CR2477. These batteries offer higher capacity and are suitable for devices that require more power, including keyless entry systems, car remote controls, and certain medical devices. As India's automotive and healthcare industries continue to expand, the demand for these larger button cells is expected to grow.

On the other hand, the CR1620 and CR1616 button cell sizes are relatively smaller and find application in specialized devices like small LED lights, electronic toys, and certain medical sensors. As niche markets for these applications expand, the demand for CR1620 and CR1616 button cells may also increase.

Application Insights

The Electric Meters segment is projected to experience rapid growth during the forecast period. The electric meters segment of the India Button Cell Market encompasses the

utilization of button cells in various types of electric meters, including energy meters, water meters, gas meters, and other utility meters. Button cells play a pivotal role in ensuring the reliable and uninterrupted operation of these meters. Electric meters are essential for accurately measuring and billing electricity consumption in residential and commercial settings, as well as monitoring water and gas consumption. The precision and dependability of these meters are paramount for utility companies to accurately bill customers and for consumers to effectively monitor their usage. Button cells are commonly employed to power the electronic components, displays, and memory storage within these meters.

Button cells used in electric meters typically fall under the 'C' letter code type, such as CR2032 or CR2450, or the 'D' letter code type, depending on the meter's power requirements and dimensions. These battery sizes strike a balance between compactness and capacity, ensuring prolonged meter operation without frequent battery replacements.

Electric meters often necessitate batteries with extended operational lifespans to minimize maintenance and replacement costs. Button cells are renowned for their reliability and ability to provide a stable power source over an extended period. The longevity of these batteries is a critical factor in ensuring the uninterrupted operation of electric meters.

The Indian utility sector is gradually transitioning to smart metering systems, which offer remote reading and real-time data monitoring capabilities. These smart meters rely on button cells to power communication modules and data storage components. With the increasing adoption of smart meters in India, the demand for button cells in this segment is expected to experience significant growth.

Regional Insights

North India emerged as the dominant region in the India Button Cell market in 2023, holding the largest market share. North India encompasses multiple states with varying levels of economic development. While certain areas like Delhi, Haryana, and Punjab exhibit economic prosperity, others may have lower per capita income. Economic factors play a significant role in shaping consumer preferences, affordability, and the demand for button cell-powered electronic devices. In regions that are more economically developed, there is a higher demand for advanced electronic gadgets and devices, resulting in increased consumption of button cells.

Urban areas in North India, particularly Delhi and its satellite cities, have experienced a surge in the demand for consumer electronics, including smartphones, smartwatches, fitness trackers, and IoT devices. These electronic devices heavily rely on button cells for power. The rising disposable income, evolving lifestyles, and tech-savvy population in urban centers drive the growth of the button cell market in this region.

In the rural parts of North India, access to essential utility services like electricity, water, and gas meters plays a pivotal role in improving living standards. Electronic utility meters often utilize button cells for monitoring consumption. Government initiatives aimed at rural electrification and infrastructure development create opportunities for button cell manufacturers to cater to these emerging markets.

Government policies and initiatives significantly impact the button cell market in North India. Initiatives that promote domestic manufacturing and sustainability, such as 'Make in India' and environmental regulations, have the potential to influence button cell manufacturing and consumption in the region. Button cell manufacturers should remain updated about regional policy changes and leverage government support for local production.

To conclude, the North India region presents a diverse landscape for the India Button Cell Market. Economic disparities, industrialization, urbanization, and government policies all contribute to the dynamics of the market. Manufacturers should adapt their strategies to address the specific needs and opportunities presented by North India, considering both urban and rural markets, while aligning with environmental and sustainability trends.

Key Market Players

Siemens AG

ABB Group

Schneider Electric

Eaton Corporation

General Electric (GE)

Landis+Gyr

Schweitzer Engineering Laboratories (SEL)

Elster Group

Itron

CG Power and Industrial Solutions

Report Scope:

In this report, the India Button Cell Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Button Cell Market, By Letter Code Type:

L

S

P

C

Others

India Button Cell Market, By Package Size:

4

5

6

7

9

10

Others

India Button Cell Market, By Application:

Timekeeping

Electric Meters

Lighting

Others

India Button Cell Market, By Region:

North India

South India

West India

East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Button Cell Market.

Available Customizations:

India Button Cell Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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