

Global Steel-Case Lithium-Ion Batteries for Smartphones Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Steel-Case Lithium-Ion Batteries for Smartphones market size is expected to reach \$ 1320 million by 2032, rising at a market growth of 19.5% CAGR during the forecast period (2026-2032).

Steel-Case Lithium-Ion Batteries for Smartphones refer to small-format, high-energy-density lithium-ion batteries using steel or nickel-plated steel casings, designed for premium smartphones, flagship smartphones, foldable smartphones, and AI smartphones. These products are mainly steel-case stacked lithium-ion batteries, using thin-wall steel casing, stacked electrode assemblies, precision laser welding, sealed electrolyte filling, micro-hole filling, high-accuracy sealing, and highly consistent PACK integration to improve capacity, structural strength, heat dissipation, cycle life, and safety margins within limited smartphone space.

Compared with conventional aluminum-laminated pouch batteries, smartphone steel-case lithium-ion batteries are not merely a casing material replacement, but a structural upgrade of smartphone battery design. Their core value lies in reducing the space occupied by top and side sealing areas in pouch cells, improving volumetric utilization, and better supporting high-capacity anode materials such as silicon-carbon and silicon-oxide. This helps meet the requirements of premium smartphones for thinner design, higher capacity, fast charging, longer cycle life, and safer removability. In 2025, global shipments of Steel-Case Lithium-Ion Batteries for Smartphones are projected to reach approximately 45 million units, with an average selling price of around \$5.2 per unit and a gross margin of approximately 20%-35%.

As the smartphone market enters a phase of intense competition for existing market

share, terminal brands are continuously raising their requirements for battery capacity, fast charging experience, device slimness, heat dissipation, and safety. While traditional aluminum-plastic film pouch batteries are highly mature and have a stable supply chain, their top- and side-sealed structures occupy internal space, gradually facing capacity improvement bottlenecks in the highly integrated designs of flagship phones, foldable phones, and AI phones. Steel-cased lithium batteries, with their stronger metal casing and higher space utilization, offer mobile phone manufacturers a new battery structure solution.

From a technological perspective, the core of steel-cased lithium batteries for smartphones is not simply 'replacing the outer shell with a steel one,' but rather a systematic upgrade in steel casing encapsulation, stacked electrode assembly, high-capacity negative electrode, precision welding, and high-consistency manufacturing. The steel casing structure helps improve resistance to compression, heat dissipation, and disassembly safety, while the stacked structure is beneficial for improving volumetric energy density and rate performance. With the increasing power consumption of smartphones due to AI features, foldable designs, multi-camera modules, and high-brightness screens, the application value of steel-cased lithium batteries in high-end models will further increase.

In terms of industrialization, this market is still in the transition phase from customer verification to large-scale adoption. Public data shows that the current mass production capacity of steel-cased lithium batteries for smartphones is mainly concentrated in a few consumer battery companies, resulting in high barriers to entry. According to public information from Zhuhai Guanyu, it plans to increase its production capacity of steel-cased lithium batteries for smartphones and smart wearables, with its capacity expected to expand from approximately 20 million units in 2025 to over 80 million units in 2026.

This report studies the global Steel-Case Lithium-Ion Batteries for Smartphones production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Steel-Case Lithium-Ion Batteries for Smartphones and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Steel-Case Lithium-Ion Batteries for Smartphones that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Steel-Case Lithium-Ion Batteries for Smartphones total production and demand, 2021-2032, (K Units)

Global Steel-Case Lithium-Ion Batteries for Smartphones total production value, 2021-2032, (USD Million)

Global Steel-Case Lithium-Ion Batteries for Smartphones production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Steel-Case Lithium-Ion Batteries for Smartphones consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Steel-Case Lithium-Ion Batteries for Smartphones domestic production, consumption, key domestic manufacturers and share

Global Steel-Case Lithium-Ion Batteries for Smartphones production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Steel-Case Lithium-Ion Batteries for Smartphones production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Steel-Case Lithium-Ion Batteries for Smartphones production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Steel-Case Lithium-Ion Batteries for Smartphones market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Samsung SDI, ATL, Zhuhai CosMX Battery Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Steel-Case Lithium-Ion Batteries for Smartphones market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Steel-Case Lithium-Ion Batteries for Smartphones Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Steel-Case Lithium-Ion Batteries for Smartphones Market, Segmentation by Type:

Prismatic Steel-Case Battery

Steel-Case Battery

Global Steel-Case Lithium-Ion Batteries for Smartphones Market, Segmentation by Capacity Range:

Below 5000 mAh

5000 To 6000 mAh

6000 To 7000 mAh

Above 7000 mAh

Global Steel-Case Lithium-Ion Batteries for Smartphones Market, Segmentation by Energy Density:

Below 230 Wh Per kg

230 To 250 Wh Per kg

250 To 280 Wh Per kg

Above 280 Wh Per kg

Global Steel-Case Lithium-Ion Batteries for Smartphones Market, Segmentation by Application:

Premium Smartphones

Mid-Range Smartphones

Others

Companies Profiled:

Samsung SDI

ATL

Zhuhai CosMX Battery Co., Ltd.

Key Questions Answered:

1. How big is the global Steel-Case Lithium-Ion Batteries for Smartphones market?
2. What is the demand of the global Steel-Case Lithium-Ion Batteries for Smartphones market?
3. What is the year over year growth of the global Steel-Case Lithium-Ion Batteries for Smartphones market?
4. What is the production and production value of the global Steel-Case Lithium-Ion Batteries for Smartphones market?
5. Who are the key producers in the global Steel-Case Lithium-Ion Batteries for Smartphones market?
6. What are the growth factors driving the market demand?

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