

Global Battery Buck-Boost Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery Buck-Boost Chip market size is expected to reach \$ 2032 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Battery Buck-Boost Chip is a power management integrated circuit designed to regulate battery voltage by both stepping it up and stepping it down, ensuring stable output across varying load and input conditions. It is widely used in portable electronic systems to maintain consistent power delivery, improve energy efficiency, and extend battery life. Its advantages lie in high conversion efficiency, wide input-output voltage range, and enhanced system stability, making it suitable for compact and energy-sensitive applications. In 2025, the capacity utilization rate was about 80%, and the average gross margin reached approximately 35%, reflecting solid operating efficiency and favorable profitability. Production in 2025 totaled 2,167 million units, with an average price of \$0.6 per unit. The upstream primarily consists of silicon wafers, photolithography machines, and etching/deposition equipment, forming the foundation of semiconductor manufacturing. The midstream focuses on chip design, wafer fabrication, testing, and packaging, which determine performance, efficiency, and reliability. The downstream is mainly concentrated in outdoor power supplies and power banks, with key customers including Anker, EcoFlow, Xiaomi, and Baseus.

Battery Buck-Boost Chip is becoming a critical component in portable energy systems as end applications increasingly demand stable voltage output across diverse operating conditions. In products such as outdoor power supplies and power banks, the chip ensures consistent performance despite fluctuations in battery voltage, supporting fast charging, multi-device compatibility, and improved energy utilization. As portable electronics evolve toward higher power density and multifunctionality, the role of buck-boost architectures is shifting from basic regulation to system-level optimization,

including efficiency management and thermal control. At the same time, growing demand for fast-charging protocols and multi-port output further reinforces the need for flexible voltage regulation solutions. However, the market is also influenced by cost pressures and integration trends, with some applications adopting highly integrated power management solutions that may compress standalone chip value. From a profitability perspective, suppliers with strong design capabilities in high-efficiency conversion and system integration are better positioned to capture value, while standard products face increasing price competition. Overall, the market is gradually transitioning toward a structure driven by performance requirements and application complexity rather than pure volume expansion, shaping a differentiated competitive landscape.

This report studies the global Battery Buck-Boost Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Buck-Boost Chip 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 Battery Buck-Boost Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Buck-Boost Chip total production and demand, 2021-2032, (Million Units)

Global Battery Buck-Boost Chip total production value, 2021-2032, (USD Million)

Global Battery Buck-Boost Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Battery Buck-Boost Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Battery Buck-Boost Chip domestic production, consumption, key domestic manufacturers and share

Global Battery Buck-Boost Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Battery Buck-Boost Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Battery Buck-Boost Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Battery Buck-Boost Chip 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 Southchip, Silergy, JoulWatt Technology, Zhuhai iSmartware Technology, Powlicon, Hangzhou Silan Microelectronics, Shenzhen Injoinic Technology, Texas Instruments, si-power, Renesas Electronics, 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 Battery Buck-Boost Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Battery Buck-Boost Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Battery Buck-Boost Chip Market, Segmentation by Type:

With MOS

Without MOS

Global Battery Buck-Boost Chip Market, Segmentation by Control Architecture:

PWM Control

PFM Control

Others

Global Battery Buck-Boost Chip Market, Segmentation by Package:

SOT-23

QFN/DFN

Others

Global Battery Buck-Boost Chip Market, Segmentation by Application:

Outdoor Power Station

Power Bank

Companies Profiled:

Southchip

Silergy

JoulWatt Technology

Zhuhai iSmartware Technology

Powlicon

Hangzhou Silan Microelectronics

Shenzhen Injoinic Technology

Texas Instruments

si-power

Renesas Electronics

Key Questions Answered:

1. How big is the global Battery Buck-Boost Chip market?
2. What is the demand of the global Battery Buck-Boost Chip market?
3. What is the year over year growth of the global Battery Buck-Boost Chip market?
4. What is the production and production value of the global Battery Buck-Boost Chip market?
5. Who are the key producers in the global Battery Buck-Boost Chip market?
6. What are the growth factors driving the market demand?

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