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Global Buck-Boost Chip for Portable Power Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Buck-Boost Chip for Portable Power market size is expected to reach $ 793 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Buck-Boost Chip for Portable Power is a power management integrated circuit specifically designed for portable energy devices, enabling efficient step-up and step-down voltage conversion to maintain stable output across varying battery conditions. It integrates power switching and control functions to optimize energy transfer, support battery utilization, and ensure reliable operation in compact, mobile power systems such as power banks and portable power stations. Compared with general-purpose solutions, it emphasizes high efficiency, compact integration, and adaptability to dynamic load conditions in portable scenarios. Its advantages include high conversion efficiency, smooth voltage transition, and strong compatibility with different battery states. 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 714 million units, with an average price of $0.7 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.

Buck-Boost Chip for Portable Power is a key component in portable energy solutions, where stable voltage regulation and efficient power conversion are essential. In devices such as power banks, portable power stations, and mobile chargers, it enables

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seamless step-up and step-down voltage transitions, ensuring reliable operation under varying battery conditions. As portable energy products evolve toward higher capacity, multi-device support, and fast-charging capabilities, demand for flexible and efficient power conversion solutions continues to grow. At the same time, increasing requirements for thermal management, energy efficiency, and system reliability are shaping the design and adoption of advanced buck-boost architectures. However, integration trends in low- to mid-power devices create competitive pressure on discrete chips. Consequently, manufacturers are focusing on improving conversion efficiency, system adaptability, and integration capability, with profitability increasingly linked to performance differentiation and suitability for complex portable applications.

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

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

Highlights and key features of the study

Global Buck-Boost Chip for Portable Power total production and demand, 2021-2032, (Million Units)
Global Buck-Boost Chip for Portable Power total production value, 2021-2032, (USD Million)
Global Buck-Boost Chip for Portable Power production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)
Global Buck-Boost Chip for Portable Power consumption by region & country, CAGR, 2021-2032 & (Million Units)
U.S. VS China: Buck-Boost Chip for Portable Power domestic production, consumption, key domestic manufacturers and share
Global Buck-Boost Chip for Portable Power production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)
Global Buck-Boost Chip for Portable Power production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)
Global Buck-Boost Chip for Portable Power production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Buck-Boost Chip for Portable Power market

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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 Buck-Boost Chip for Portable Power 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 Buck-Boost Chip for Portable Power Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Buck-Boost Chip for Portable Power Market, Segmentation by Type:

Bidirectional

Unidirectional

Global Buck-Boost Chip for Portable Power Market, Segmentation by Control Architecture:

PWM Control

PFM Control

Others

Global Buck-Boost Chip for Portable Power Market, Segmentation by Package:

SOT-23

QFN/DFN

Others

Global Buck-Boost Chip for Portable Power Market, Segmentation by Application:

Outdoor Power Station

Power Bank

Companies Profiled:

Southchip

Silergy

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

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