

Global Buck-Boost Chip for Outdoor Power Supply Market Growth 2026-2032

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Abstracts

The global Buck-Boost Chip for Outdoor Power Supply market size is predicted to grow from US\$ 460 million in 2025 to US\$ 732 million in 2032; it is expected to grow at a CAGR of 6.8% from 2026 to 2032.

Buck-Boost Chip for Outdoor Power Supply is a power management integrated circuit specifically designed for outdoor energy systems, enabling both step-up and step-down voltage conversion to maintain stable output under fluctuating battery conditions. It integrates power conversion and control functions to optimize energy efficiency, support battery charging and discharging, and ensure reliable operation across varying loads and environments, making it essential for portable and off-grid power applications. Compared with general power chips, it emphasizes high-efficiency conversion and stable voltage regulation in complex outdoor scenarios. Its advantages include high conversion efficiency, wide operating voltage range, and strong adaptability to dynamic load conditions. In 2025, the capacity utilization rate was about 80%, and the average gross margin reached approximately 35%, reflecting solid operational efficiency and favorable profitability. Production in 2025 totaled 644 million units, with an average price of \$0.73 per unit. The upstream primarily consists of silicon wafers, photolithography machines, and etching/deposition equipment, with key suppliers including ASML, Tokyo Electron, Applied Materials, and Lam Research providing critical manufacturing tools and materials. The midstream focuses on chip design, wafer fabrication, testing, and packaging processes, which determine conversion efficiency, reliability, and overall performance. The downstream applications are mainly in emergency backup power and residential energy storage systems, with key customers including Anker, EcoFlow, Huawei, and Bluetti.

Buck-Boost Chip for Outdoor Power Supply is becoming a key component in portable

and distributed energy systems where stable voltage output and high conversion efficiency are required. In applications such as emergency backup power and residential energy storage, it enables seamless voltage regulation under fluctuating battery conditions, supporting reliable operation and efficient energy utilization. As outdoor power equipment evolves toward higher capacity, fast-charging capability, and multi-device support, demand for flexible and efficient power conversion solutions continues to strengthen. At the same time, increasing requirements for safety, thermal management, and system reliability are driving the adoption of higher-performance buck-boost architectures. However, integration trends in lower-end products may compress the value of discrete solutions, intensifying competition. As a result, suppliers are focusing on improving efficiency, integration capability, and adaptability to complex load scenarios, with long-term profitability increasingly linked to technological differentiation and application depth.

LP Information, Inc. (LPI) ' newest research report, the 'Buck-Boost Chip for Outdoor Power Supply Industry Forecast' looks at past sales and reviews total world Buck-Boost Chip for Outdoor Power Supply sales in 2025, providing a comprehensive analysis by region and market sector of projected Buck-Boost Chip for Outdoor Power Supply sales for 2026 through 2032. With Buck-Boost Chip for Outdoor Power Supply sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Buck-Boost Chip for Outdoor Power Supply industry.

This Insight Report provides a comprehensive analysis of the global Buck-Boost Chip for Outdoor Power Supply landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Buck-Boost Chip for Outdoor Power Supply portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Buck-Boost Chip for Outdoor Power Supply market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Buck-Boost Chip for Outdoor Power Supply and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Buck-Boost Chip for Outdoor Power Supply.

This report presents a comprehensive overview, market shares, and growth opportunities of Buck-Boost Chip for Outdoor Power Supply market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Bidirectional

Unidirectional

Segmentation by Control Architecture:

PWM Control

PFM Control

Others

Segmentation by Package:

SOT-23

QFN/DFN

Others

Segmentation by Application:

Emergency Backup Power

Home Energy Storage

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Southchip

Silergy

JoulWatt Technology

Zhuhai iSmartware Technology

Powlicon

Hangzhou Silan Microelectronics

Shenzhen Injoinic Technology

Texas Instruments

si-power

Renesas Electronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Buck-Boost Chip for Outdoor Power Supply market?

What factors are driving Buck-Boost Chip for Outdoor Power Supply market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Buck-Boost Chip for Outdoor Power Supply market opportunities vary by end market size?

How does Buck-Boost Chip for Outdoor Power Supply break out by Type, by Application?

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