

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

<https://marketpublishers.com/r/GAC5C79CE99EEN.html>

Date: May 2026

Pages: 98

Price: US\$ 4,480.00 (Single User License)

ID: GAC5C79CE99EEN

Abstracts

The global Buck-Boost Chip for Outdoor Power Supply market size is expected to reach \$ 753 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

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.

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

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

Highlights and key features of the study

Global Buck-Boost Chip for Outdoor Power Supply total production and demand, 2021-2032, (Million Units)

Global Buck-Boost Chip for Outdoor Power Supply total production value, 2021-2032, (USD Million)

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

Global Buck-Boost Chip for Outdoor Power Supply consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Buck-Boost Chip for Outdoor Power Supply domestic production, consumption, key domestic manufacturers and share

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

Global Buck-Boost Chip for Outdoor Power Supply production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Buck-Boost Chip for Outdoor Power Supply production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Buck-Boost Chip for Outdoor Power Supply 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 Buck-Boost Chip for Outdoor Power Supply 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 Outdoor Power Supply Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Bidirectional

Unidirectional

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

PWM Control

PFM Control

Others

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

SOT-23

QFN/DFN

Others

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

Emergency Backup Power

Home Energy Storage

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

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