

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

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Abstracts

The global Unidirectional Buck-Boost Chip for Outdoor Power Supply market size is expected to reach \$ 444 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Unidirectional Buck-Boost Chip for Outdoor Power Supply is a power management integrated circuit designed for outdoor energy systems, enabling controlled step-up and step-down voltage regulation in a single power-flow direction to maintain stable output under battery voltage fluctuations. It integrates power conversion and control functions to support efficient energy transfer, battery charging management, and multi-load power delivery in portable and off-grid power applications. Compared with general-purpose power chips, it emphasizes high-efficiency conversion and stable voltage regulation under harsh outdoor and dynamic load conditions. Its advantages include high conversion efficiency, wide operating voltage range, and strong adaptability to variable load profiles. In 2025, the capacity utilization rate was about 80%, and the industry average gross margin was approximately 35%, reflecting stable operational efficiency and solid profitability. Production in 2025 totaled 430 million units, with an average price of \$0.65 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 equipment and materials. The midstream covers chip design, wafer fabrication, testing, and packaging, determining conversion efficiency, reliability, and overall performance. The downstream is mainly concentrated in emergency backup power supplies and residential energy storage applications, with representative customers including Anker Innovations, EcoFlow, Huawei, and Bluetti.

Unidirectional Buck-Boost Chip for Outdoor Power Supply benefits from the continued expansion of portable energy storage systems and outdoor electrification use cases. Demand is primarily driven by emergency backup power, camping energy systems, and residential off-grid scenarios, where stable discharge efficiency and cost control are critical. The unidirectional architecture fits discharge-centric designs, simplifying system complexity while maintaining high conversion efficiency. However, its applicability is more constrained compared with bidirectional solutions in advanced energy management systems. Future growth will depend on efficiency optimization, higher power density integration, and sustained penetration of consumer-grade portable power stations rather than broader industrial electrification trends.

This report studies the global Unidirectional 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 Unidirectional 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 Unidirectional Buck-Boost Chip for Outdoor Power Supply that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

Global Unidirectional 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 Unidirectional 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 (China), Silergy (China), JoulWatt (China), Zhuhai iSmartWare (China), Powlicon (China), Hangzhou Ruimeng (China), Shenzhen Lowpower (China), Texas Instruments (USA), Si-Power (China), Renesas Electronics (Japan), 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 Unidirectional 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 Unidirectional Buck-Boost Chip for Outdoor Power Supply Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

?48V

?48V

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

PWM Control

PFM Control

Others

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

SOT-23

QFN/DFN

Others

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

Emergency Backup Power

Home Energy Storage

Companies Profiled:

Southchip (China)

Silergy (China)

JoulWatt (China)

Zhuhai iSmartWare (China)

Powlicon (China)

Hangzhou Ruimeng (China)

Shenzhen Lowpower (China)

Texas Instruments (USA)

Si-Power (China)

Renesas Electronics (Japan)

Infineon Technologies (Germany)

STMicroelectronics (Switzerland)

Key Questions Answered:

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

Power Supply market?

6. What are the growth factors driving the market demand?

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