

Global Unidirectional Buck-Boost Chip for Outdoor Power Supply Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Unidirectional Buck-Boost Chip for Outdoor Power Supply market size was valued at US\$ 288 million in 2025 and is forecast to a readjusted size of US\$ 444 million by 2032 with a CAGR of 6.3% during review period.

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 is a detailed and comprehensive analysis for global Unidirectional Buck-Boost Chip for Outdoor Power Supply market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Unidirectional Buck-Boost Chip for Outdoor Power Supply market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Unidirectional Buck-Boost Chip for Outdoor Power Supply market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Unidirectional Buck-Boost Chip for Outdoor Power Supply market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Unidirectional Buck-Boost Chip for Outdoor Power Supply market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Unidirectional Buck-Boost Chip for Outdoor Power Supply

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Unidirectional Buck-Boost Chip for Outdoor Power Supply market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Unidirectional Buck-Boost Chip for Outdoor Power Supply market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

?48V

?48V

Market segment by Control Architecture

PWM Control

PFM Control

Others

Market segment by Package

SOT-23

QFN/DFN

Others

Market segment by Application

Emergency Backup Power

Home Energy Storage

Major players covered

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)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Unidirectional Buck-Boost Chip for Outdoor Power Supply product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Unidirectional Buck-Boost Chip for Outdoor Power Supply, with price, sales quantity, revenue, and global market share of Unidirectional Buck-Boost Chip for Outdoor Power Supply from 2021 to 2026.

Chapter 3, the Unidirectional Buck-Boost Chip for Outdoor Power Supply competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Unidirectional Buck-Boost Chip for Outdoor Power Supply breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Unidirectional Buck-Boost Chip for Outdoor Power Supply market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Unidirectional Buck-Boost Chip for Outdoor Power Supply.

Chapter 14 and 15, to describe Unidirectional Buck-Boost Chip for Outdoor Power Supply sales channel, distributors, customers, research findings and conclusion.

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