+357 96 030922
info@marketpublishers.com

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

https://marketpublishers.com/r/G25C2E3C8CDAEN.html
Date: July 2026
Pages: 116
Price: US$ 3,660.00 (Single User License)
ID: G25C2E3C8CDAEN

Abstracts

The global Unidirectional Buck-Boost Chip for Outdoor Power Supply market size is predicted to grow from US$ 273 million in 2025 to US$ 431 million in 2032; it is expected to grow at a CAGR of 6.7% from 2026 to 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

+357 96 030922
info@marketpublishers.com

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.

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

This Insight Report provides a comprehensive analysis of the global Unidirectional 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 Unidirectional 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 Unidirectional 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 Unidirectional 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 Unidirectional Buck-Boost Chip for Outdoor Power Supply.

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

+357 96 030922
info@marketpublishers.com

Segmentation by Type:

?48V

?48V

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

+357 96 030922
info@marketpublishers.com

- Canada
- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel

+357 96 030922
info@marketpublishers.com

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 (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 Addressed in this Report

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

+357 96 030922
info@marketpublishers.com

What factors are driving Unidirectional 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 doUnidirectional Buck-Boost Chip for Outdoor Power Supply market opportunities vary by end market size?

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

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

3 GLOBAL BY COMPANY

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

Table 147. STMicroelectronics (Switzerland) Latest Developments

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Unidirectional Buck-Boost Chip for Outdoor Power Supply Market Growth 2026-2032

Product link: https://marketpublishers.com/r/G25C2E3C8CDAEN.html

Price: US$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G25C2E3C8CDAEN.html