

Global Bidirectional Buck-Boost Regulator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bidirectional Buck-Boost Regulator market size is expected to reach \$ 843 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

Bidirectional Buck-Boost Regulator is a power management integrated circuit that enables bidirectional voltage conversion between battery systems and load or source terminals, supporting both step-up and step-down regulation under dynamic operating conditions. It incorporates control logic and power stage coordination to manage energy flow efficiently across charging and discharging states, ensuring stable output and optimized system-level energy utilization. Compared with controller-based architectures, it provides a more integrated regulation function, reducing external component dependence while improving conversion efficiency and response accuracy. It is widely applied in portable energy systems and distributed power architectures requiring flexible bidirectional energy management. Its advantages include high conversion efficiency, seamless bidirectional mode transition, and strong adaptability to complex load and battery conditions. In 2025, the capacity utilization rate was about 80%, and the average gross margin reached approximately 35%, reflecting solid operating efficiency and favorable profitability. Production in 2025 totaled 653 million units, with an average price of \$0.8 per unit. The upstream primarily consists of silicon wafers, photolithography machines, and etching/deposition equipment, forming the foundation of semiconductor manufacturing. The midstream focuses on chip design, wafer fabrication, testing, and packaging, which determine performance, efficiency, and reliability. The downstream is mainly concentrated in outdoor power supplies and power banks, with key customers including Anker, EcoFlow, Xiaomi, and Baseus.

Bidirectional Buck-Boost Regulator is a DC-DC power conversion device capable of

bidirectional power transfer, operating in both buck (step-down) and boost (step-up) modes. It is widely used in battery energy storage systems, portable power stations, bidirectional charging/discharging applications, electric vehicle BMS platforms, and USB Power Delivery systems. The regulator dynamically adjusts current direction and output voltage based on system voltage levels, enabling seamless and efficient power flow in both directions with precise voltage regulation. Compared to traditional unidirectional converters, bidirectional regulators offer higher flexibility, fast transient response, low output ripple, and high efficiency in both charging and discharging states, making them a critical building block for modern smart power management architectures.

This report studies the global Bidirectional Buck-Boost Regulator production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Bidirectional Buck-Boost Regulator total production and demand, 2021-2032, (Million Units)

Global Bidirectional Buck-Boost Regulator total production value, 2021-2032, (USD Million)

Global Bidirectional Buck-Boost Regulator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Bidirectional Buck-Boost Regulator consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Bidirectional Buck-Boost Regulator domestic production, consumption, key domestic manufacturers and share

Global Bidirectional Buck-Boost Regulator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Bidirectional Buck-Boost Regulator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Bidirectional Buck-Boost Regulator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Bidirectional Buck-Boost Regulator 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 Bidirectional Buck-Boost Regulator 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 Bidirectional Buck-Boost Regulator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bidirectional Buck-Boost Regulator Market, Segmentation by Type:

±48V

±48V

Global Bidirectional Buck-Boost Regulator Market, Segmentation by Control Architecture:

PWM Control

PFM Control

Others

Global Bidirectional Buck-Boost Regulator Market, Segmentation by Package:

SOT-23

QFN/DFN

Others

Global Bidirectional Buck-Boost Regulator Market, Segmentation by Application:

Outdoor Power Station

Power Bank

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

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