

Global Bidirectional Buck-Boost Regulator 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 Bidirectional Buck-Boost Regulator market size was valued at US\$ 538 million in 2025 and is forecast to a readjusted size of US\$ 843 million by 2032 with a CAGR of 6.6% during review period.

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 is a detailed and comprehensive analysis for global Bidirectional Buck-Boost Regulator 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 Bidirectional Buck-Boost Regulator market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Bidirectional Buck-Boost Regulator 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 Bidirectional Buck-Boost Regulator 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 Bidirectional Buck-Boost Regulator 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 Bidirectional Buck-Boost Regulator

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 Bidirectional Buck-Boost Regulator 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

Bidirectional Buck-Boost Regulator 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

Outdoor Power Station

Power Bank

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 Bidirectional Buck-Boost Regulator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bidirectional Buck-Boost Regulator, with price, sales quantity, revenue, and global market share of Bidirectional Buck-Boost Regulator from 2021 to 2026.

Chapter 3, the Bidirectional Buck-Boost Regulator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bidirectional Buck-Boost Regulator 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 Bidirectional Buck-Boost Regulator 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 Bidirectional Buck-Boost Regulator.

Chapter 14 and 15, to describe Bidirectional Buck-Boost Regulator sales channel, distributors, customers, research findings and conclusion.

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