

# Global 48V to 12V Bidirectional DC/DC Converter Market Growth 2025-2031

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## Abstracts

The global 48V to 12V Bidirectional DC/DC Converter market size is predicted to grow from US\$ 1523 million in 2025 to US\$ 2723 million in 2031; it is expected to grow at a CAGR of 10.2% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

As system power levels continue to increase, data centers, automotive, and advanced industrial markets are deploying 48V power delivery networks (PDNs); 48V-based architectures maximize the efficiency of the power delivery network while maintaining safety extra-low voltage (SELV) levels. The increasing use of 48V PDNs requires compatibility with legacy 12V system and infrastructure power supplies. 48V/12V bidirectional DC-DC converters can achieve voltage conversion between 48V and 12V, and support bidirectional conversion, that is, from 48V to 12V, and from 12V to 48V. This converter is widely used in electric vehicles, hybrid vehicles, data centers, LED lighting, and various industrial applications.

United States market for 48V to 12V Bidirectional DC/DC Converter is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for 48V to 12V Bidirectional DC/DC Converter is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for 48V to 12V Bidirectional DC/DC Converter is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key 48V to 12V Bidirectional DC/DC Converter players cover Delta Electronics, BorgWarner Inc, Continental AG, Delphi Technologies, Valeo, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "48V to 12V Bidirectional DC/DC Converter Industry Forecast" looks at past sales and reviews total world 48V to 12V Bidirectional DC/DC Converter sales in 2024, providing a comprehensive analysis by region and market sector of projected 48V to 12V Bidirectional DC/DC Converter sales for 2025 through 2031. With 48V to 12V Bidirectional DC/DC Converter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 48V to 12V Bidirectional DC/DC Converter industry.

This Insight Report provides a comprehensive analysis of the global 48V to 12V Bidirectional DC/DC Converter 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 48V to 12V Bidirectional DC/DC Converter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 48V to 12V Bidirectional DC/DC Converter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 48V to 12V Bidirectional DC/DC Converter 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 48V to 12V Bidirectional DC/DC Converter.

This report presents a comprehensive overview, market shares, and growth opportunities of 48V to 12V Bidirectional DC/DC Converter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Buck Converter

Boost Converter

Buck-Boost Converter

Segmentation by Application:

Battery Electric Vehicle(BEV)

Mild Hybrid Electric Vehicle (MHEV)

Residential Solar Storage

Data Center

Industrial Power Systems

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

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.

Delta Electronics

BorgWarner Inc

Continental AG

Delphi Technologies

Valeo

Infineon

Bosch

Eaton

Vicor

Schaeffler Group

Onsemi

STMicroelectronics

TI

Analog Devices

Renesas

Toshiba Corporation

Shinry Technologies Co.,Ltd.

Shanghai Fengtian Electronic Co.,Ltd.

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global 48V to 12V Bidirectional DC/DC Converter market?

What factors are driving 48V to 12V Bidirectional DC/DC Converter market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?  
How do 48V to 12V Bidirectional DC/DC Converter market opportunities vary by end market size?  
How does 48V to 12V Bidirectional DC/DC Converter break out by Type, by Application?

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