

Global Isolated DC-DC Converter Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Isolated DC-DC Converter market size was valued at USD 635.9 million in 2023 and is forecast to a readjusted size of USD 916.4 million by 2030 with a CAGR of 5.4% during review period.

DC/DC Converter is an electronic circuit which converts a source of direct current (DC) from one voltage level to another. It is a class of power converter.

The isolated DC-DC converter is electrically separated between the input and the output terminals while the input and the output of a non-isolated converter share the common ground. Sometimes an isolated DC-DC converter is called isolated ground or galvanic isolated type.

Simply use a digital multi-meter or any other ohm meter to measure the resistance between the ground terminals of the input and output of the converter. If the shorted (common) it is a non-isolated type, otherwise it is an isolated type.

Summary Isolated and non-isolated DC-DC converter.

Non-isolated DC-DC converters are common and of lower cost, they are used in most negative ground application in vehicles for various DC powered appliances and equipment. However they have one big disadvantage in the electrical connection between the input and output which offers little or no protection to the load for any high electrical voltage, current and etc. occurs on the input side. They also have less noise filtering blockage.



Isolated DC-DC converters have high isolation (barrier) voltage from several hundreds to thousand volts depending on the type of standard. They can be used as negative grounded or positive ground or floating ground for various equipment from data com to telecom. They have strong noise and interference blocking capability thus provide the load with a cleaner DC source which is required by many sensitive load.

The major players in global Isolated DC-DC Converter market include Vicor, Infineon, Artesyn, etc. The top 3 players occupy about 15% shares of the global market. North America and Europe are main markets, they occupy about 50% of the global market. Flyback is the main type, with a share about 60%. Industrial & Automation and Consumer Electronics are main applications, which hold a share about 70%.

The Global Info Research report includes an overview of the development of the Isolated DC-DC Converter industry chain, the market status of Industrial & Automation (Flyback, Forward), Consumer electronics (Flyback, Forward), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Isolated DC-DC Converter.

Regionally, the report analyzes the Isolated DC-DC Converter markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Isolated DC-DC Converter market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Isolated DC-DC Converter market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Isolated DC-DC Converter industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Flyback, Forward).

Industry Analysis: Report analyse the broader industry trends, such as government



policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Isolated DC-DC Converter market.

Regional Analysis: The report involves examining the Isolated DC-DC Converter market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Isolated DC-DC Converter market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Isolated DC-DC Converter:

Company Analysis: Report covers individual Isolated DC-DC Converter manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Isolated DC-DC Converter This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial & Automation, Consumer electronics).

Technology Analysis: Report covers specific technologies relevant to Isolated DC-DC Converter. It assesses the current state, advancements, and potential future developments in Isolated DC-DC Converter areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Isolated DC-DC Converter market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation



Isolated DC-DC Converter market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

| Market segment by Type | | |
|-------------------------------|-------------------------|--|
| | Flyback | |
| | Forward | |
| | | |
| Market segment by Application | | |
| | Industrial & Automation | |
| | Consumer electronics | |
| | Medical | |
| | Others | |
| | | |
| Major players covered | | |
| | Vicor | |
| | Infineon | |
| | Artesyn | |
| | Texas Instruments | |
| | XP Power | |
| | TDK-lambda | |
| | Analog Devices | |



| PULS | | |
|--|--|--|
| Mean Well | | |
| Murata | | |
| RECOM | | |
| Bothhand Enterprise | | |
| Cincon | | |
| ON Semiconductor | | |
| CUI inc | | |
| 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 Isolated DC-DC Converter product scope, market overview, market estimation caveats and base year. | | |

2024.

Chapter 2, to profile the top manufacturers of Isolated DC-DC Converter, with price, sales, revenue and global market share of Isolated DC-DC Converter from 2019 to



Chapter 3, the Isolated DC-DC Converter competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Isolated DC-DC Converter breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023.and Isolated DC-DC Converter market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Isolated DC-DC Converter.

Chapter 14 and 15, to describe Isolated DC-DC Converter sales channel, distributors, customers, research findings and conclusion.



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