

Global Isolated DC-DC Converter Market Growth 2025-2031

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Abstracts

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The global Isolated DC-DC Converter market size is predicted to grow from US\$ 674 million in 2025 to US\$ 945 million in 2031; it is expected to grow at a CAGR of 5.8% from 2025 to 2031.

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%.

LP Information, Inc. (LPI) ' newest research report, the "Isolated DC-DC Converter Industry Forecast" looks at past sales and reviews total world Isolated DC-DC Converter sales in 2024, providing a comprehensive analysis by region and market sector of projected Isolated DC-DC Converter sales for 2025 through 2031. With Isolated 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 Isolated DC-DC Converter industry.

This Insight Report provides a comprehensive analysis of the global Isolated 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 Isolated 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 Isolated DC-DC Converter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Isolated 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 Isolated DC-DC Converter.

This report presents a comprehensive overview, market shares, and growth opportunities of Isolated DC-DC Converter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Flyback

Forward

Segmentation by Application:

Industrial & Automation

Consumer electronics

Medical

Others

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.

Vicor

Infineon

Artesyn

Texas Instruments

XP Power

TDK-lambda

Analog Devices

PULS

Mean Well

Murata

RECOM

Bothhand Enterprise

Cincon

ON Semiconductor

CUI inc

Key Questions Addressed in this Report

What is the 10-year outlook for the global Isolated DC-DC Converter market?

What factors are driving Isolated DC-DC Converter market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Isolated DC-DC Converter market opportunities vary by end market size?

How does Isolated DC-DC Converter break out by Type, by Application?

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