

DC-DC Converter Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global DC-DC converter market size reached US\$ 10.7 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 16.7 Billion by 2028, exhibiting a growth rate (CAGR) of 7.4% during 2023-2028.

The operating voltage of various electronic devices, such as integrated circuits (ICs), can vary over a wide range and lead to degradation and malfunction if an unstable or improper voltage is supplied. Therefore, DC-DC converters, also known as linear or switching regulators, are incorporated in electronic devices to convert and stabilize direct current (DC) voltage to another. They rely on high-frequency switching and inductors, transformers, and capacitors to efficiently produce a regulated voltage. Nowadays, several manufacturers are offering DC-DC converters that allow customers to develop and differentiate their power designs.

DC-DC Converter Market Trends:

The increasing demand for portable electronic devices, such as cellular phones, laptops, and computers, on account of the rising internet penetration, represents one of the key factors impelling the market growth. Apart from this, DC-DC converters play a pivotal role in electric vehicles (EVs) to ensure high-efficiency energy conversion, run vehicle accessories and recharge the auxiliary battery. This, in confluence with the growing environmental concerns and awareness among individuals about the high vehicular pollution levels and various government initiatives to reduce carbon footprints, is influencing the market positively. Besides this, with the constant depletion of conventional energy sources like coal, oil, and natural gas, the development and

application of renewable energy sources is increasing worldwide. This, in turn, is driving the need for DC-DC converters to achieve precise control of input and output characteristics and improve the applicability and reliability of energy management systems. Furthermore, market players are offering an extensive range of DC-DC converters, from economical low power solutions to robust and reliable power modules, which are suitable for use in industrial, medical, defense, and railway applications.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global DC-DC converter market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on mounting style, input voltage, output voltage and application.

Breakup by Mounting Style:

- Surface Mount
- Through Hole

Breakup by Input Voltage:

- 5-36V
- 36-75V
- 75V and Above

Breakup by Output Voltage:

- 3.3V
- 5V
- 12V
- 15V and Above

Breakup by Application:

- Smartphone
- Servers PCs
- EV Battery
- Railway
- Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ABB Ltd, Bel Fuse Inc., Delta Electronics Inc., Fujitsu Limited, General Electric Company, Infineon Technologies AG, Meggitt plc, Murata Manufacturing Co. Ltd., RECOM Power GmbH, STMicroelectronics, TDK Corporation and Vicor Corporation.

Key Questions Answered in This Report

1. What was the size of the global DC-DC converter market in 2022?

2. What is the expected growth rate of the global DC-DC converter market during 2023-2028?
3. What are the key factors driving the global DC-DC converter market?
4. What has been the impact of COVID-19 on the global DC-DC converter market?
5. What is the breakup of the global DC-DC converter market based on the mounting style?
6. What is the breakup of the global DC-DC converter market based on the input voltage?
7. What is the breakup of the global DC-DC converter market based on the output voltage?
8. What is the breakup of the global DC-DC converter market based on the application?
9. What are the key regions in the global DC-DC converter market?
10. Who are the key players/companies in the global DC-DC converter market?

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