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DC-DC Converters - Global Market Outlook (2020-2028)

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Abstracts

According to Stratistics MRC, the Global DC-DC Converters Market is accounted for $9.95 billion in 2020 and is expected to reach $35.19 billion by 2028 growing at a CAGR of 17.1% during the forecast period. Some of the key factors propelling the market growth include growing adoption of environment-friendly electric vehicles, increasing use of DC-DC converters in electric/fully electric aircraft, incorporating new power-saving architectures in DC-DC converters, rising use of thick film hybrid DC-DC converters in space applications, increasing power requirements of networking infrastructure, and growing requirement for reliable power supply units for use in out-patient care equipment. However, regulations and safety standards that vary from country to country is likely to hamper the market.

A DC-DC converter is an electronic circuit or electromechanical device, which converts a source of direct current (DC) from one voltage level to another. DC-DC converters are extensively used to efficiently produce a regulated voltage from a source that may or may not be well controlled, such as solar power to a connected load. Its closed feedback loops maintain constant voltage output even when changing input voltages and output currents. The majority DC-DC converter circuits regulate the output voltage. A large number of DC-DC converters are commonly designed to flow current in one direction from dedicated input to output. However, switching converters are designed to move current in both the directions; they are electronically complex in nature.

By end user, information technology (IT) & telecommunication segment is projected to grow at the lucrative rate during the forecast period, due to the transition from 3G/4G network to 5G. This will lead to the shift from larger, macro base stations to smaller solutions which require low power demands. Key players are developing products to match the rapid development in the communication industry. For instance, in June

2018, Murata launched its 1 kW DRQ-11.4/88-L48 series of quarter brick, intermediate bus, DC/DC converter modules that addresses the growing power requirements of high-reliability networking and telecommunications infrastructure equipment. The need for power supply for communication equipment is also growing at a fast-pace due to the increasing adoption of broadband-enabled mobile devices, resulting in driving the global DC-DC converters s market.

On the basis of geography, Asia-Pacific is expected to witness the significant market growth during the forecast period, owing to increasing demand for electronics application such as laptops and cellphones, high investments in the development of new satellites for surveillance, communications, earth observation, and navigation in China and India. The telecom industry in APAC countries such as China, Japan, South Korea, and Singapore are focusing on upgrading their network infrastructure for boosting 5G infrastructure which will ultimately boost the demand for 5G-enabled devices, which will drive the market. These countries are major manufacturers of electronic devices such as laptops, cell phones, and integrated circuits, among others, which is expected to drive the demand for DC-DC converters.

Some of the key players in DC-DC Converters Market include Crane Aerospace and Electronics, Infineon Technologies AG, Murata Manufacturing Co., Ltd, Thales Group, TDK-Lambda Corporation, Airbus Group SE, Delta Electronics, Inc., Texas Instruments Incorporated., Fujitsu, Stmicroelectronics, Artesyn Embedded Technologies, General Electric (GE), Traco Electronics AG, BEL Fuse Inc., ABB Ltd, Mitsubishi Electric Corporation, Larsen & Toubro Limited, and Ericsson.

Output Voltages Covered:

24V and Above

15V

12V

5V

3.3V

Input Voltages Covered:

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>75V

36V-75V

15V-35V

3V-14V

Converter Types Covered:

Buck-Boost Converter

Boost Converter

Buck Converter

Output Numbers Covered:

Multi-Output

Three Output

Dual Output

Single Output

Form Factors Covered:

Sixteen Brick (1/16)

Eighth Brick (1/8)

Quarter Brick

Half Brick (1/2)

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Full Brick

Output Power Covered:

>1000W

500W-1000W

250W-500W

0.25W-250W

Sales Channels Covered:

Indirect

Direct

Distributor

Roundabout

Immediate

Product Types Covered:

Non-Isolated DC-DC Converters

Isolated DC-DC Converters

Non-Disconnected

Detached

Mounting Styles Covered:

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Through Hole

Surface Mount

Applications Covered:

Electric Vehicle (EV) Battery Management Unit

Railway Traction

Medical Equipment

Electronic Devices

Server Personal Computers (PCs)

Surveillance

Scientific Research

Navigation

Remote Sensing

Smartphone

End Users Covered:

Medical

Consumer Electronics

Information technology (IT) & Telecommunication

Automotive

Server, Data Storage & Network

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- Industrial Robotics
- Aerospace & Defense
- Transport
- Healthcare
- Railways
- Energy & Power
- Manufacturing
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Regions Covered:

- North America
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    - France
    - Italy
    - UK
    - Spain

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Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2019, 2020, 2021, 2025 and 2028

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic analysis: Drivers and Constraints, Product/Technology Analysis, Porter's five forces analysis, SWOT analysis, etc.

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Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

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