

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

<https://marketpublishers.com/r/D65D7F800895EN.html>

Date: June 2021

Pages: 150

Price: US\$ 4,150.00 (Single User License)

ID: D65D7F800895EN

Abstracts

According to Statistics 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 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:

>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)

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:

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

Industrial Robotics

Aerospace & Defense

Transport

Healthcare

Railways

Energy & Power

Manufacturing

Audio Visual

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

France

Italy

UK

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

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.

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

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

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Product Analysis
- 3.7 Application Analysis
- 3.8 End User Analysis
- 3.9 Emerging Markets
- 3.10 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL DC-DC CONVERTERS MARKET, BY OUTPUT VOLTAGE

- 5.1 Introduction
- 5.2 24V and Above
- 5.3 15V
- 5.4 12V
- 5.5 5V
- 5.6 3.3V

6 GLOBAL DC-DC CONVERTERS MARKET, BY INPUT VOLTAGE

- 6.1 Introduction
- 6.2 >75V
- 6.3 36V-75V
- 6.4 15V-35V
- 6.5 3V-14V

7 GLOBAL DC-DC CONVERTERS MARKET, BY CONVERTER TYPE

- 7.1 Introduction
- 7.2 Buck-Boost Converter
- 7.3 Boost Converter
- 7.4 Buck Converter

8 GLOBAL DC-DC CONVERTERS MARKET, BY OUTPUT NUMBER

- 8.1 Introduction
- 8.2 Multi-Output
- 8.3 Three Output
- 8.4 Dual Output
- 8.5 Single Output

9 GLOBAL DC-DC CONVERTERS MARKET, BY FORM FACTOR

- 9.1 Introduction
- 9.2 Sixteen Brick (1/16)
- 9.3 Eighth Brick (1/8)
- 9.4 Quarter Brick

9.5 Half Brick (1/2)

9.6 Full Brick

10 GLOBAL DC-DC CONVERTERS MARKET, BY OUTPUT POWER

10.1 Introduction

10.2 >1000W

10.3 500W-1000W

10.4 250W-500W

10.5 0.25W-250W

11 GLOBAL DC-DC CONVERTERS MARKET, BY SALES CHANNEL

11.1 Introduction

11.2 Indirect

11.3 Direct

11.4 Distributor

11.5 Roundabout

11.6 Immediate

12 GLOBAL DC-DC CONVERTERS MARKET, BY PRODUCT TYPE

12.1 Introduction

12.2 Non-Isolated DC-DC Converters

12.3 Isolated DC-DC Converters

12.4 Non-Disconnected

12.5 Detached

13 GLOBAL DC-DC CONVERTERS MARKET, BY MOUNTING STYLE

13.1 Introduction

13.2 Through Hole

13.3 Surface Mount

14 GLOBAL DC-DC CONVERTERS MARKET, BY APPLICATION

14.1 Introduction

14.2 Electric Vehicle (EV) Battery Management Unit

14.3 Railway Traction

- 14.4 Medical Equipment
- 14.5 Electronic Devices
- 14.6 Server Personal Computers (PCs)
- 14.7 Surveillance
- 14.8 Scientific Research
- 14.9 Navigation
- 14.10 Remote Sensing
- 14.11 Smartphone

15 GLOBAL DC-DC CONVERTERS MARKET, BY END USER

- 15.1 Introduction
- 15.2 Medical
- 15.3 Consumer Electronics
- 15.4 Information technology (IT) & Telecommunication
 - 15.4.1 Base Stations
 - 15.4.2 Towers
 - 15.4.3 Cellular Phone
- 15.5 Automotive
 - 15.5.1 Hybrid Electric Vehicle (HEV)
 - 15.5.2 Plug-In Hybrid Electric Vehicle (PHEV)
 - 15.5.3 Electric Vehicles (EVS)
 - 15.5.4 Fuel Cell Vehicle (FCV)
- 15.6 Server, Data Storage & Network
- 15.7 Industrial Robotics
 - 15.7.1 Chemical, Paper and Plastics
 - 15.7.2 Metals
 - 15.7.3 Automotive
 - 15.7.4 Food & Beverages
 - 15.7.5 Electronics & Electricals
- 15.8 Aerospace & Defense
 - 15.8.1 Unmanned Aerial Vehicles (UAVs)
 - 15.8.2 Aircraft
 - 15.8.3 Satellites
- 15.9 Transport
- 15.10 Healthcare
- 15.11 Railways
- 15.12 Energy & Power
- 15.13 Manufacturing

15.14 Audio Visual

16 GLOBAL DC-DC CONVERTERS MARKET, BY GEOGRAPHY

16.1 Introduction

16.2 North America

16.2.1 US

16.2.2 Canada

16.2.3 Mexico

16.3 Europe

16.3.1 Germany

16.3.2 UK

16.3.3 Italy

16.3.4 France

16.3.5 Spain

16.3.6 Rest of Europe

16.4 Asia Pacific

16.4.1 Japan

16.4.2 China

16.4.3 India

16.4.4 Australia

16.4.5 New Zealand

16.4.6 South Korea

16.4.7 Rest of Asia Pacific

16.5 South America

16.5.1 Argentina

16.5.2 Brazil

16.5.3 Chile

16.5.4 Rest of South America

16.6 Middle East & Africa

16.6.1 Saudi Arabia

16.6.2 UAE

16.6.3 Qatar

16.6.4 South Africa

16.6.5 Rest of Middle East & Africa

17 KEY DEVELOPMENTS

17.1 Agreements, Partnerships, Collaborations and Joint Ventures

- 17.2 Acquisitions & Mergers
- 17.3 New Product Launch
- 17.4 Expansions
- 17.5 Other Key Strategies

18 COMPANY PROFILING

- 18.1 Crane Aerospace and Electronics
- 18.2 Infineon Technologies AG
- 18.3 Murata Manufacturing Co., Ltd
- 18.4 Thales Group
- 18.5 TDK-Lambda Corporation
- 18.6 Airbus Group SE
- 18.7 Delta Electronics, Inc.
- 18.8 Texas Instruments Incorporated.
- 18.9 Fujitsu
- 18.10 Stmicroelectronics
- 18.11 Artesyn Embedded Technologies
- 18.12 General Electric (GE)
- 18.13 Traco Electronics AG
- 18.14 BEL Fuse Inc.
- 18.15 ABB Ltd
- 18.16 Mitsubishi Electric Corporation
- 18.17 Larsen & Toubro Limited
- 18.18 Ericsson

List Of Tables

LIST OF TABLES

- Table 1 Global DC-DC Converters Market Outlook, By Region (2019-2028) (\$MN)
- Table 2 Global DC-DC Converters Market Outlook, By Output Voltage (2019-2028) (\$MN)
- Table 3 Global DC-DC Converters Market Outlook, By 24V and Above (2019-2028) (\$MN)
- Table 4 Global DC-DC Converters Market Outlook, By 15V (2019-2028) (\$MN)
- Table 5 Global DC-DC Converters Market Outlook, By 12V (2019-2028) (\$MN)
- Table 6 Global DC-DC Converters Market Outlook, By 5V (2019-2028) (\$MN)
- Table 7 Global DC-DC Converters Market Outlook, By 3.3V (2019-2028) (\$MN)
- Table 8 Global DC-DC Converters Market Outlook, By Input Voltage (2019-2028) (\$MN)
- Table 9 Global DC-DC Converters Market Outlook, By >75V (2019-2028) (\$MN)
- Table 10 Global DC-DC Converters Market Outlook, By 36V-75V (2019-2028) (\$MN)
- Table 11 Global DC-DC Converters Market Outlook, By 15V-35V (2019-2028) (\$MN)
- Table 12 Global DC-DC Converters Market Outlook, By 3V-14V (2019-2028) (\$MN)
- Table 13 Global DC-DC Converters Market Outlook, By Converter Type (2019-2028) (\$MN)
- Table 14 Global DC-DC Converters Market Outlook, By Buck-Boost Converter (2019-2028) (\$MN)
- Table 15 Global DC-DC Converters Market Outlook, By Boost Converter (2019-2028) (\$MN)
- Table 16 Global DC-DC Converters Market Outlook, By Buck Converter (2019-2028) (\$MN)
- Table 17 Global DC-DC Converters Market Outlook, By Output Number (2019-2028) (\$MN)
- Table 18 Global DC-DC Converters Market Outlook, By Multi-Output (2019-2028) (\$MN)
- Table 19 Global DC-DC Converters Market Outlook, By Three Output (2019-2028) (\$MN)
- Table 20 Global DC-DC Converters Market Outlook, By Dual Output (2019-2028) (\$MN)
- Table 21 Global DC-DC Converters Market Outlook, By Single Output (2019-2028) (\$MN)
- Table 22 Global DC-DC Converters Market Outlook, By Form Factor (2019-2028) (\$MN)
- Table 23 Global DC-DC Converters Market Outlook, By Sixteen Brick (1/16) (2019-2028) (\$MN)

Table 24 Global DC-DC Converters Market Outlook, By Eighth Brick (1/8) (2019-2028) (\$MN)

Table 25 Global DC-DC Converters Market Outlook, By Quarter Brick (2019-2028) (\$MN)

Table 26 Global DC-DC Converters Market Outlook, By Half Brick (1/2) (2019-2028) (\$MN)

Table 27 Global DC-DC Converters Market Outlook, By Full Brick (2019-2028) (\$MN)

Table 28 Global DC-DC Converters Market Outlook, By Output Power (2019-2028) (\$MN)

Table 29 Global DC-DC Converters Market Outlook, By >1000W (2019-2028) (\$MN)

Table 30 Global DC-DC Converters Market Outlook, By 500W-1000W (2019-2028) (\$MN)

Table 31 Global DC-DC Converters Market Outlook, By 250W-500W (2019-2028) (\$MN)

Table 32 Global DC-DC Converters Market Outlook, By 0.25W-250W (2019-2028) (\$MN)

Table 33 Global DC-DC Converters Market Outlook, By Sales Channel (2019-2028) (\$MN)

Table 34 Global DC-DC Converters Market Outlook, By Indirect (2019-2028) (\$MN)

Table 35 Global DC-DC Converters Market Outlook, By Direct (2019-2028) (\$MN)

Table 36 Global DC-DC Converters Market Outlook, By Distributor (2019-2028) (\$MN)

Table 37 Global DC-DC Converters Market Outlook, By Roundabout (2019-2028) (\$MN)

Table 38 Global DC-DC Converters Market Outlook, By Immediate (2019-2028) (\$MN)

Table 39 Global DC-DC Converters Market Outlook, By Product Type (2019-2028) (\$MN)

Table 40 Global DC-DC Converters Market Outlook, By Non-Isolated DC-DC Converters (2019-2028) (\$MN)

Table 41 Global DC-DC Converters Market Outlook, By Isolated DC-DC Converters (2019-2028) (\$MN)

Table 42 Global DC-DC Converters Market Outlook, By Non-Disconnected (2019-2028) (\$MN)

Table 43 Global DC-DC Converters Market Outlook, By Detached (2019-2028) (\$MN)

Table 44 Global DC-DC Converters Market Outlook, By Mounting Style (2019-2028) (\$MN)

Table 45 Global DC-DC Converters Market Outlook, By Through Hole (2019-2028) (\$MN)

Table 46 Global DC-DC Converters Market Outlook, By Surface Mount (2019-2028) (\$MN)

- Table 47 Global DC-DC Converters Market Outlook, By Application (2019-2028) (\$MN)
- Table 48 Global DC-DC Converters Market Outlook, By Electric Vehicle (EV) Battery Management Unit (2019-2028) (\$MN)
- Table 49 Global DC-DC Converters Market Outlook, By Railway Traction (2019-2028) (\$MN)
- Table 50 Global DC-DC Converters Market Outlook, By Medical Equipment (2019-2028) (\$MN)
- Table 51 Global DC-DC Converters Market Outlook, By Electronic Devices (2019-2028) (\$MN)
- Table 52 Global DC-DC Converters Market Outlook, By Server Personal Computers (PCs) (2019-2028) (\$MN)
- Table 53 Global DC-DC Converters Market Outlook, By Surveillance (2019-2028) (\$MN)
- Table 54 Global DC-DC Converters Market Outlook, By Scientific Research (2019-2028) (\$MN)
- Table 55 Global DC-DC Converters Market Outlook, By Navigation (2019-2028) (\$MN)
- Table 56 Global DC-DC Converters Market Outlook, By Remote Sensing (2019-2028) (\$MN)
- Table 57 Global DC-DC Converters Market Outlook, By Smartphone (2019-2028) (\$MN)
- Table 58 Global DC-DC Converters Market Outlook, By End User (2019-2028) (\$MN)
- Table 59 Global DC-DC Converters Market Outlook, By Medical (2019-2028) (\$MN)
- Table 60 Global DC-DC Converters Market Outlook, By Consumer Electronics (2019-2028) (\$MN)
- Table 61 Global DC-DC Converters Market Outlook, By Information technology (IT) & Telecommunication (2019-2028) (\$MN)
- Table 62 Global DC-DC Converters Market Outlook, By Base Stations (2019-2028) (\$MN)
- Table 63 Global DC-DC Converters Market Outlook, By Towers (2019-2028) (\$MN)
- Table 64 Global DC-DC Converters Market Outlook, By Cellular Phone (2019-2028) (\$MN)
- Table 65 Global DC-DC Converters Market Outlook, By Automotive (2019-2028) (\$MN)
- Table 66 Global DC-DC Converters Market Outlook, By Hybrid Electric Vehicle (HEV) (2019-2028) (\$MN)
- Table 67 Global DC-DC Converters Market Outlook, By Plug-In Hybrid Electric Vehicle (PHEV) (2019-2028) (\$MN)
- Table 68 Global DC-DC Converters Market Outlook, By Electric Vehicles (EVS) (2019-2028) (\$MN)
- Table 69 Global DC-DC Converters Market Outlook, By Fuel Cell Vehicle (FCV)

(2019-2028) (\$MN)

Table 70 Global DC-DC Converters Market Outlook, By Server, Data Storage & Network (2019-2028) (\$MN)

Table 71 Global DC-DC Converters Market Outlook, By Industrial Robotics (2019-2028) (\$MN)

Table 72 Global DC-DC Converters Market Outlook, By Chemical, Paper and Plastics (2019-2028) (\$MN)

Table 73 Global DC-DC Converters Market Outlook, By Metals (2019-2028) (\$MN)

Table 74 Global DC-DC Converters Market Outlook, By Automotive (2019-2028) (\$MN)

Table 75 Global DC-DC Converters Market Outlook, By Food & Beverages (2019-2028) (\$MN)

Table 76 Global DC-DC Converters Market Outlook, By Electronics & Electricals (2019-2028) (\$MN)

Table 77 Global DC-DC Converters Market Outlook, By Aerospace & Defense (2019-2028) (\$MN)

Table 78 Global DC-DC Converters Market Outlook, By Unmanned Aerial Vehicles (UAVs) (2019-2028) (\$MN)

Table 79 Global DC-DC Converters Market Outlook, By Aircraft (2019-2028) (\$MN)

Table 80 Global DC-DC Converters Market Outlook, By Satellites (2019-2028) (\$MN)

Table 81 Global DC-DC Converters Market Outlook, By Transport (2019-2028) (\$MN)

Table 82 Global DC-DC Converters Market Outlook, By Healthcare (2019-2028) (\$MN)

Table 83 Global DC-DC Converters Market Outlook, By Railways (2019-2028) (\$MN)

Table 84 Global DC-DC Converters Market Outlook, By Energy & Power (2019-2028) (\$MN)

Table 85 Global DC-DC Converters Market Outlook, By Manufacturing (2019-2028) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

I would like to order

Product name: DC-DC Converters - Global Market Outlook (2020-2028)

Product link: <https://marketpublishers.com/r/D65D7F800895EN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/D65D7F800895EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970