

Global New Energy Vehicle DC/DC Converter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global New Energy Vehicle DC/DC Converter market size is expected to reach \$ 2055 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

New energy vehicles DC/DC converters are key power electronic devices used to convert the high-voltage DC power from the power battery into low-voltage DC power (such as 12V/24V) for vehicle operation. They power the vehicle controller, lights, infotainment, and auxiliary systems, and feature high efficiency, high reliability, and automotive-grade safety characteristics. Upstream components mainly include power semiconductor devices (IGBTs, MOSFETs, SiC), magnetic components, capacitors, resistors, and control chips; downstream applications are concentrated in the manufacturing of pure electric vehicles, plug-in hybrid electric vehicles, and range-extended electric vehicles, as well as in the integration of automotive electronic and electrical systems.

The global average price of DC/DC converters for new energy vehicles is \$15 per unit, with sales of approximately 78.5 million units and a global production capacity of 80 million units. The industry profit margin reaches 25%.

Global Market Future Development Trends:

With the continued rise in global sales of new energy vehicles, DC/DC converters, as standard components in every new energy vehicle, have a solid foundation for robust market demand growth. Especially against the backdrop of rapid expansion in pure electric and plug-in hybrid vehicles, the installed capacity of DC/DC converters is highly correlated with overall vehicle production, making it one of the most stable growth

segments in the new energy power electronics system.

The accelerated adoption of 800V high-voltage platforms places higher demands on DC/DC converters in terms of efficiency, power density, and withstand voltage ratings. The gradual application of SiC power devices, digital control technology, and highly integrated modular design is driving product evolution towards smaller size, lower losses, and higher reliability, continuously increasing the value per vehicle.

While European, American, and Japanese companies still possess technological advantages in automotive-grade power electronics, Chinese manufacturers are rapidly rising due to cost control, rapid iteration, and localization capabilities. As OEMs strengthen supply chain security and domestic substitution, competition in the DC/DC converter market will intensify, and industry concentration is expected to gradually increase with increased production volume.

This report studies the global New Energy Vehicle DC/DC Converter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for New Energy Vehicle DC/DC Converter and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of New Energy Vehicle DC/DC Converter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global New Energy Vehicle DC/DC Converter total production and demand, 2021-2032, (K Units)

Global New Energy Vehicle DC/DC Converter total production value, 2021-2032, (USD Million)

Global New Energy Vehicle DC/DC Converter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global New Energy Vehicle DC/DC Converter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: New Energy Vehicle DC/DC Converter domestic production, consumption, key domestic manufacturers and share

Global New Energy Vehicle DC/DC Converter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global New Energy Vehicle DC/DC Converter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global New Energy Vehicle DC/DC Converter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global New Energy Vehicle DC/DC Converter market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Skyworks Solutions, STMicroelectronics, Continental, Bosch, Denso Corporation, Panasonic Corporation, Infineon Technologies, Hella, Alps Electronics, Marelli, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World New Energy Vehicle DC/DC Converter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global New Energy Vehicle DC/DC Converter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global New Energy Vehicle DC/DC Converter Market, Segmentation by Type:

Isolated DC-DC Converter

Non-Isolated DC-DC Converter

Global New Energy Vehicle DC/DC Converter Market, Segmentation by Power Rating:

Low Power (3 kW)

Global New Energy Vehicle DC/DC Converter Market, Segmentation by Installation Location:

Vehicle-mounted Centralized

Electric Drive System Integrated

Distributed DC/DC

Global New Energy Vehicle DC/DC Converter Market, Segmentation by Application:

BEV

REEV

PHEV

Companies Profiled:

Skyworks Solutions

STMicroelectronics

Continental

Bosch

Denso Corporation

Panasonic Corporation

Infineon Technologies

Hella

Alps Electronics

Marelli

Valeo Group

Shenzhen Vmax New Energy

Shenzhen Foripower Electric

China DDWY

Beijing SinoHytec

Shinry Technologies

Key Questions Answered:

1. How big is the global New Energy Vehicle DC/DC Converter market?
2. What is the demand of the global New Energy Vehicle DC/DC Converter market?
3. What is the year over year growth of the global New Energy Vehicle DC/DC Converter market?
4. What is the production and production value of the global New Energy Vehicle DC/DC Converter market?
5. Who are the key producers in the global New Energy Vehicle DC/DC Converter market?
6. What are the growth factors driving the market demand?

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