

# Global EV Converters Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global EV Converters market size is expected to reach \$ 16840 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032). Electric vehicle converters are the core power electronic devices in the power systems of new energy vehicles. They undertake key functions such as energy conversion, voltage level regulation, and energy optimization management, and serve as an 'energy hub' connecting the power battery, drive motor, vehicle electrical system, and external power grid.

The global production of electric vehicle converters is projected to reach 20.7 million units by 2025, with an average price of \$427 per unit.

Upstream of EV converters mainly includes power semiconductor devices, control and driver ICs, magnetic components, passive devices, thermal materials, structural parts, and automotive-grade electronic components, with high requirements for reliability, high-temperature endurance, and long-term supply stability. Downstream represents the core of demand and value, serving EV OEMs, electric drive system integrators, and battery system suppliers, with applications covering onboard DC-DC converters, onboard chargers, and high-voltage to low-voltage energy management. Downstream customers emphasize conversion efficiency and power density, system safety and functional safety certification, electromagnetic compatibility, lightweight and integration levels, cost control, and full lifecycle quality and service support. Platform-based designs and large-scale vehicle deployment dominate procurement decisions.

Industry trends highlight parallel advances in high efficiency and high power density under high-voltage architectures, accelerating adoption of wide-bandgap devices, evolution toward multi-in-one integration and modular designs, and enhanced energy management through advanced software and control strategies. Key drivers include rising EV penetration, proliferation of 800V platforms, demand for improved range and energy efficiency, and OEM focus on localization and supply chain security. Major

constraints include cost volatility of power devices and key chips, high technical and certification barriers, long development cycles, and intensified price competition compressing margins.

Overall gross margins for EV converters are moderate, typically ranging from 25% to 40%. Vendors with in-house power module development, strong system-level design and integration capabilities, deep OEM relationships, and large-scale production achieve higher margins, while suppliers competing mainly with standardized low-cost products face notable margin pressure.

This report studies the global EV Converters production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for EV Converters 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 EV Converters that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global EV Converters total production and demand, 2021-2032, (Units)

Global EV Converters total production value, 2021-2032, (USD Million)

Global EV Converters production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global EV Converters consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: EV Converters domestic production, consumption, key domestic manufacturers and share

Global EV Converters production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global EV Converters production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global EV Converters production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global EV Converters 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 Bosch, Valeo, DENSO Corporation, ZF Friedrichshafen AG, BorgWarner Inc., Schaeffler AG, LG Magna e-Powertrain, Hyundai Mobis, Hyundai KEFICO, Delta Electronics, Inc., 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 EV Converters market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 EV Converters Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EV Converters Market, Segmentation by Type:

DC/DC Converter

AC/DC Converter

DC/AC Converter

Bidirectional Converter

Global EV Converters Market, Segmentation by Power:

Below 1 kW

1?10 kW

Above 10 kW

#### Global EV Converters Market, Segmentation by Voltage:

12V

24V

48V

400V

800V

Others

#### Global EV Converters Market, Segmentation by Integrated Form:

Standalone Converter

Integrated Converter

#### Global EV Converters Market, Segmentation by Application:

New Energy Passenger Vehicles

New Energy Commercial Vehicles

Special Vehicles

#### **Companies Profiled:**

Bosch

Valeo

DENSO Corporation

ZF Friedrichshafen AG

BorgWarner Inc.

Schaeffler AG

LG Magna e-Powertrain

Hyundai Mobis

Hyundai KEFICO

Delta Electronics, Inc.

Toyota Industries Corporation

Yazaki Corporation

Visteon Corporation

Ficosa International S.A.

BRUSA HyPower AG

MAHLE GmbH

Shindengen Electric Manufacturing Co., Ltd.

Eaton

### **Key Questions Answered:**

1. How big is the global EV Converters market?

2. What is the demand of the global EV Converters market?
3. What is the year over year growth of the global EV Converters market?
4. What is the production and production value of the global EV Converters market?
5. Who are the key producers in the global EV Converters market?
6. What are the growth factors driving the market demand?

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