

Global Electric Vehicle Power Inverter Market Size study, by Propulsion Type (Hybrid Electric Vehicles, Plug-in Hybrid Electric Vehicle, Battery Electric Vehicle, Fuel Cell Electric Vehicle) by Vehicle Type (Passenger Cars, Commercial Vehicles) and Regional Forecasts 2022-2032

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Abstracts

Global Electric Vehicle Power Inverter Market is valued approximately USD 6.2 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 22.60% over the forecast period 2024-2032. An electric vehicle power inverter is a device that changes the power source of an electric car motor from direct current (DC) to alternating current (AC). The use of power inverters in electric vehicles is becoming more widespread. Motors that are compatible with equipment and sensors that require AC current to function also use the converted current. Moreover, plug-in outlets and other conventional 120-volt devices can use the electricity in electric automobiles. In addition, advanced inverters are enhancing energy recovery systems, including regenerative braking, to improve overall vehicle efficiency and extend driving range. Thus, these factors help in further providing growth opportunities for the Global Electric Vehicle Power Inverter Market.

The surge in electric vehicle (EV) adoption is significantly driving the demand for Global EV power inverters Market. As environmental concerns and government incentives encourage consumers to switch from traditional internal combustion engine vehicles to electric alternatives, the need for efficient power conversion systems becomes paramount. For example, according to the 2022 IEA study, the number of EV vehicles sold worldwide in 2021 was 6.7 million, up 3.7 million from 2020. In addition, EV power inverters play a critical role in converting the DC power stored in the battery to AC

power required by the electric motor, ensuring smooth and efficient vehicle operation. In addition, advancements in battery technology and increased consumer expectations for longer driving ranges and better performance are pushing manufacturers to develop more sophisticated and efficient inverters. The rise of high-power applications, such as fast-charging stations and high-performance EVs, further escalates the demand for advanced inverter technologies capable of handling greater power loads. Thus, the growing EV market directly fuels the expansion and innovation within the EV power inverter market, making it a pivotal component in the ongoing automotive transformation. However, high initial cost of advanced inverter technologies and an availability & accessibility of charging stations can stifle market growth between 2022 and 2032.

The key regions considered for the global Electric Vehicle Power Inverter market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Asia Pacific was the largest regional market in terms of revenue and expected to develop at the fastest rate over the forecast period. Many countries in Asia Pacific, such as China, Japan, and South Korea, have implemented favorable policies and incentives to promote electric vehicle adoption. These include subsidies, tax incentives, and regulations aimed at reducing emissions and improving air quality, thus driving the demand for EV power inverters. The region's rapid urbanization and population growth have led to increased congestion and pollution in cities. Governments and consumers are turning to electric vehicles as a cleaner and more sustainable transportation solution, boosting the demand for EV power inverters.

Major market player included in this report are:

Siemens
Mitsubishi Electric Corporation
Marelli Corporation
DENSO Corporation
Continental
Lear Corporation
Robert Bosch GmbH
Valeo Group
Nissan Motor Co., Ltd.
Toyota Industries Corporation

The detailed segments and sub-segment of the market are explained below:

By Propulsion Type

Hybrid Electric Vehicles
Plug-in Hybrid Electric Vehicle
Battery Electric Vehicle
Fuel Cell Electric Vehicle

By Vehicle Type

Passenger Cars
Commercial Vehicles
?

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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