

# Europe 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 Country Forecasts 2022-2032

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## Abstracts

Europe Electric Vehicle Power Inverter Market is valued approximately at USD 1.74 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 25.15% over the forecast period 2024-2032. An Electric Vehicle (EV) Power Inverter is a crucial component within the powertrain of an electric vehicle. Its primary function is to convert the direct current (DC) stored in the EV's battery into alternating current (AC), which is necessary to power the vehicle's electric motor. Moreover, the EV power inverter is a vital component that ensures the efficient and effective operation of an electric vehicle's powertrain, enabling the conversion of stored battery energy into usable mechanical power while also facilitating regenerative braking and optimizing overall vehicle performance. Increasing environmental concerns and government incentives & subsidies to promote the adoption of electric vehicles (EVs), driving the need for efficient power inverters driving the Europe Electric Vehicle Power Inverter Market.

Advancements in EV technology is significantly driving the demand for the Europe Electric Vehicle Power Inverter market. Innovations in the power electronics are leading to the development of more efficient and compact power inverters, which are crucial for converting DC battery power to AC for the electric motor. Better inverter designs improve overall vehicle performance by increasing energy efficiency, extending driving range, and reducing power losses. Additionally, advancement in semiconductor materials, such as silicon carbide (SiC) and gallium nitride (GaN), enable inverters to

operate at higher voltages and temperatures with greater efficiency and durability. These technological improvements not only enhance the performance and reliability of EVs but also lower manufacturing costs, making EVs more affordable and attractive to consumers. As a result, the growing adoption of advanced EV technology is fueling the demand for cutting-edge power inverters across Europe, supporting the region's transition to sustainable transportation. However, high initial cost of advanced inverter technologies and a complexity of EV powertrain systems can stifle market growth between 2022 and 2032.

The key countries considered for the Europe Electric Vehicle Power Inverter market study includes UK, Germany, France, Italy, Spain, and Rest of Europe. In 2023, Germany was the largest market in terms of revenue. German automotive giants such as Volkswagen, BMW, and Daimler are heavily investing in electric vehicle technology. This includes significant R&D investment in power electronics and power inverter technology to enhance EV performance. Furthermore, the German government provides funding and subsidies for research and development in EV technology, encouraging manufacturers to innovate and produce advanced power inverters. In addition, Germany is rapidly expanding its EV charging network, with significant investment in fast-charging stations. This expansion reduces range anxiety and makes EVs more practical for everyday use, thereby increasing the demand for power inverters. The market in UK is expected to grow at the fastest rate over the forecast period.

Major market player included in this report are:

Siemens AG

Vitesco Technologies Group AG

Continental AG

Robert Bosch GmbH

Valeo Group

Aptiv PLC

Infineon Technologies AG

Company 8

Company 9

Company 10

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:

Europe

UK

Germany

France

Spain

Italy

ROE

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 Country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis.

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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