

Europe Automotive Traction Inverters Market Size study, by Propulsion Type (BEV, HEV, PHEV) by Output Power (Less Than or Equal to 130 kW, More Than 130 kW), by Semiconductor Material (Gallium Nitride (GaN), Silicon (Si), Silicon Nitride (SiC)) by Technology Type (IGBT, MOSFET), by Vehicle Type (Passenger Vehicles, Light Commercial Vehicles, Heavy Commercial Vehicles) and Country Forecasts 2022-2032

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Abstracts

Europe Automotive Traction Inverters Market is valued approximately USD 1.13 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 18.02% over the forecast period 2024-2032. An automotive traction inverter plays a pivotal role in electric and hybrid vehicles, converting direct current (DC) from the vehicle's battery pack into alternating current (AC) to power the electric motor or motors. This conversion is crucial for regulating motor speed and torque, ensuring efficient and seamless vehicle operation. Traction inverters also facilitate regenerative braking systems by converting kinetic energy from braking into electrical energy, which can be stored in the battery pack for future use. Automotive traction inverters are evolving to incorporate advanced features such as regenerative braking, torque vectoring, and enhanced thermal management systems. These innovations improve overall vehicle performance, efficiency, and safety, which raises the demand for more sophisticated inverters which is gaining attraction in European Automotive Traction Inverters Market.

Europe is experiencing a significant shift towards vehicle electrification driven by stringent emission regulations and environmental concerns. This trend is leading to a

growing demand for automotive traction inverters as essential components of electric drivetrains in both passenger cars and commercial vehicles. The adoption of electric vehicles is on the rise in Europe, fueled by government incentives, improving charging infrastructure, and a growing range of electric vehicle models. As a result, there is a corresponding increase in the demand for automotive traction inverters to power electric drivetrains and support the transition to sustainable transportation. Furthermore, the Europe Automotive Traction Inverters Market is driven by Integration of Silicon Carbide (SiC) and Gallium Nitride (GaN) Technologies and rising technological advancements in the region. However, charging infrastructure challenges and high initial cost, would stifle market growth between 2022 and 2032.

The key countries considered for the Europe Automotive Traction Inverters market study includes UK, Germany, France, Italy, Spain, and Rest of Europe. In 2023, Germany was the largest market in terms of revenue. Germany boasts a robust automotive industry renowned for its technological innovation, engineering prowess, and high-quality manufacturing standards. Companies such as Bosch, Continental, and Infineon, among others, have a strong presence in the development and production of automotive traction inverters, leveraging Germany's engineering expertise and advanced manufacturing capabilities. Moreover, Germany has been at the forefront of electric vehicle (EV) adoption and infrastructure development in Europe. The German government has implemented supportive policies, incentives, and subsidies to encourage the uptake of EVs, driving demand for traction inverters as essential components of electric drivetrains. Additionally, Germany has presence of key automakers such as Volkswagen, BMW, and Mercedes-Benz, which have made substantial investments in electric vehicle technology and are driving the development of electric vehicle platforms and models that rely on traction inverters. The market in UK, on the other hand, is expected to grow at the fastest rate over the forecast period.

Major market player included in this report are:

Continental AG

Robert Bosch GmbH

Infineon Technologies AG

ZF Friedrichshafen AG

Vitesco Technologies GmbH

Company 6

Company 7

Company 8

Company 9

Company 10

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

By Propulsion Type

BEV

HEV

PHEV

By Output Power

Less Than or Equal to 130 kW

More Than 130 kW

By Semiconductor Material:

Gallium Nitride (GaN)

Silicon (Si)

Silicon Nitride (SiC)

By Technology Type:

IGBT

MOSFET

By Vehicle Type:

Passenger Vehicles

Light Commercial Vehicles

Heavy 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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