

Global 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 Regional Forecasts 2022-2032

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Abstracts

Global Automotive Traction Inverters Market is valued approximately USD 5.6 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 17.57% over the forecast period 2024-2032. An automotive traction inverter serves as a critical component in electric and hybrid vehicles, facilitating the transformation of direct current (DC) sourced from the vehicle's battery pack into alternating current (AC). This conversion is pivotal for regulating the speed and torque of the electric motor or motors, ensuring the vehicle operates efficiently and seamlessly. Additionally, traction inverters contribute to regenerative braking systems by converting kinetic energy from braking into electrical energy, which is subsequently stored in the battery pack for future utilization. The increasing demand for automotive traction inverters has led to the emergence of new market players, including startups and technology companies specializing in electric vehicle components. This influx of new players is fostering competition and innovation in the traction inverter market, leading to a broader range of product offerings and technological advancements.

The growth of charging infrastructure for electric vehicles, including fast chargers and



high-power charging stations, is driving the demand for high-capacity traction inverters capable of fast charging capabilities. Traction inverters with bidirectional power flow capabilities also support vehicle-to-grid (V2G) and vehicle-to-home (V2H) applications, further enhancing their value proposition. Furthermore, the Automotive Traction Inverters Market is driven by rise in electric vehicle (EV) adoption and the expansion of charging infrastructure. The push for energy-efficient vehicles and the expansion of charging infrastructure worldwide are contributing to the rising adoption of electric vehicles, further boosting the traction inverters market. The growing awareness among consumers about the benefits of electric vehicles, including lower operational costs and reduced carbon footprint, is another significant factor supporting market expansion. However, high initial investment costs associated with Automotive Traction Inverters and availability of alternatives would stifle market growth between 2022 and 2032.

The key regions considered for the global Automotive Traction Inverters 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. In its long-term strategy, The Asia-Pacific region is poised to experience a notable surge in automotive traction inverter market share. This growth is particularly fueled by countries like China, Japan, and South Korea, which serve as pivotal centers for automotive component production. A key driving force behind this uptick is the increasing adoption of electric vehicles (EVs) in the region. The market in North America is expected to grow at the fastest rate over the forecast period.

Denso Corporation
Robert Bosch GmbH
BorgWarner Inc.
Hitachi, Ltd.
TDK Electronics
Mitsubishi Electric Corporation
Valeo SA

Major market player included in this report are:

Eaton Corporation
Vitesco Technologies Group
Curtiss-Wright Corporation

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:

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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