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Asia Pacific 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

Asia Pacific Automotive Traction Inverters Market is valued approximately USD 2.05 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 19.89% over the forecast period 2024-2032. An automotive traction inverter is a crucial component in electric and hybrid vehicles, responsible for converting the direct current (DC) from the vehicle's battery pack into alternating current (AC) to drive the electric motor or motors. This conversion is essential for controlling the speed and torque of the motor, thus enabling efficient and smooth operation of the vehicle. Traction inverters also play a role in regenerative braking systems, where they convert the kinetic energy from braking back into electrical energy, which can then be stored in the battery pack for later use. To meet the increasing demand for electric vehicles and associated components, including traction inverters, many automotive manufacturers are establishing production facilities and supply chains in the Asia Pacific Automotive Traction Inverters Market. This shift towards localized production allows companies to reduce costs, improve supply chain efficiency, and better cater to regional market preferences.

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The Asia Pacific region is witnessing a rapid expansion of the electric vehicle market, driven by government incentives, increasing environmental awareness, and advancements in battery technology. As the adoption of electric vehicles continues to rise, the demand for automotive traction inverters, essential components of electric drivetrains, is also increasing significantly. Furthermore, Asia Pacific Automotive Traction Inverters Market is driven by rising investment in the development of charging infrastructure and government support and favorable incentives policies. Furthermore, the expansion of charging infrastructure and growing consumer awareness about the benefits of electric vehicles, such as lower operating costs and reduced environmental impact, are contributing to the rising adoption of these vehicles, thereby boosting the demand for automotive traction inverters in the region, however high cost of inverters and availability of alternative technologies stifle market growth between 2022 and 2032.

The key Countries considered for the Asia Pacific Automotive Traction Inverters market study includes China, India, Japan, South Korea, Australia and Rest of Asia Pacific. In 2023, China was the largest regional market in terms of revenue. China has rapidly become the largest automotive market globally, with a significant focus on electric vehicles (EVs) and new energy vehicles (NEVs). The Chinese government has implemented ambitious policies and incentives to promote EV adoption, including subsidies, tax breaks, and stringent emission regulations, driving the demand for automotive traction inverters. Moreover, China boasts a robust manufacturing ecosystem and supply chain infrastructure, supported by a vast network of domestic automotive suppliers and technology companies. This manufacturing prowess enables China to mass-produce automotive traction inverters efficiently and cost-effectively, meeting the growing demand from both domestic and international markets. The market in India, on the other hand, is expected to grow at the fastest rate over the forecast period.

Major market player included in this report are:
BYD Company Limited
Contemporary Amperex Technology Co. Limited
LG Electronics Inc
Denso Corporation
Toshiba Corporation
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:
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

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 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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