

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

<https://marketpublishers.com/r/EFA437CBD46FEN.html>

Date: July 2024

Pages: 200

Price: US\$ 6,250.00 (Single User License)

ID: EFA437CBD46FEN

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

Contents

CHAPTER 1. EUROPE AUTOMOTIVE TRACTION INVERTERS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 1.1. Research Objective
- 1.2. Market Definition
- 1.3. Research Assumptions
 - 1.3.1. Inclusion & Exclusion
 - 1.3.2. Limitations
 - 1.3.3. Supply Side Analysis
 - 1.3.3.1. Availability
 - 1.3.3.2. Infrastructure
 - 1.3.3.3. Regulatory Environment
 - 1.3.3.4. Market Competition
 - 1.3.3.5. Economic Viability (Consumer's Perspective)
 - 1.3.4. Demand Side Analysis
 - 1.3.4.1. Regulatory frameworks
 - 1.3.4.2. Technological Advancements
 - 1.3.4.3. Environmental Considerations
 - 1.3.4.4. Consumer Awareness & Acceptance
- 1.4. Estimation Methodology
- 1.5. Years Considered for the Study
- 1.6. Currency Conversion Rates

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Europe Automotive Traction Inverters Market Size & Forecast (2022- 2032)
- 2.2. Regional Summary
- 2.3. Segmental Summary
 - 2.3.1. By Propulsion Type
 - 2.3.2. By Output Power
 - 2.3.3. By Semiconductor Material
 - 2.3.4. By Technology Type
 - 2.3.5. By Vehicle Type
- 2.4. Key Trends
- 2.5. Recession Impact
- 2.6. Analyst Recommendation & Conclusion

CHAPTER 3. EUROPE AUTOMOTIVE TRACTION INVERTERS MARKET DYNAMICS

- 3.1. Market Drivers
- 3.2. Market Challenges
- 3.3. Market Opportunities

CHAPTER 4. EUROPE AUTOMOTIVE TRACTION INVERTERS MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
 - 4.1.6. Futuristic Approach to Porter's 5 Force Model
 - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
 - 4.2.6. Legal
- 4.3. Top investment opportunity
- 4.4. Top winning strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. EUROPE AUTOMOTIVE TRACTION INVERTERS MARKET SIZE & FORECASTS BY PROPULSION TYPE 2022-2032

- 5.1. BEV
- 5.2. HEV
- 5.3. PHEV

CHAPTER 6. EUROPE AUTOMOTIVE TRACTION INVERTERS MARKET SIZE &

Europe Automotive Traction Inverters Market Size study, by Propulsion Type (BEV, HEV, PHEV) by Output Power (L...

FORECASTS BY OUTPUT POWER 2022-2032

- 6.1. Less Than or Equal to 130 kW
- 6.2. More Than 130 kW

CHAPTER 7. EUROPE AUTOMOTIVE TRACTION INVERTERS MARKET SIZE & FORECASTS BY SEMICONDUCTOR MATERIAL 2022-2032

- 7.1. Gallium Nitride (GaN)
- 7.2. Silicon (Si)
- 7.3. Silicon Nitride (SiC)

CHAPTER 8. EUROPE AUTOMOTIVE TRACTION INVERTERS MARKET SIZE & FORECASTS BY TECHNOLOGY TYPE 2022-2032

- 8.1. IGBT
- 8.2. MOSFET

CHAPTER 9. EUROPE AUTOMOTIVE TRACTION INVERTERS MARKET SIZE & FORECASTS BY VEHICLE TYPE 2022-2032

- 9.1. Passenger Vehicles
- 9.2. Light Commercial Vehicles
- 9.3. Heavy Commercial Vehicles

CHAPTER 10. EUROPE AUTOMOTIVE TRACTION INVERTERS MARKET SIZE & FORECASTS BY COUNTRY 2022-2032

- 10.1. U.K. Automotive Traction Inverters Market
 - 10.1.1.1. Propulsion Type breakdown size & forecasts, 2022-2032
 - 10.1.1.2. Output Power breakdown size & forecasts, 2022-2032
 - 10.1.1.3. Semiconductor Material breakdown size & forecasts, 2022-2032
 - 10.1.1.4. Technology Type breakdown size & forecasts, 2022-2032
 - 10.1.1.5. Vehicle Type breakdown size & forecasts, 2022-2032
- 10.2. Germany Automotive Traction Inverters Market
- 10.3. France Automotive Traction Inverters Market
- 10.4. Spain Automotive Traction Inverters Market
- 10.5. Italy Automotive Traction Inverters Market
- 10.6. Rest of Europe Automotive Traction Inverters Market

CHAPTER 11. COMPETITIVE INTELLIGENCE

11.1. Key Company SWOT Analysis

11.1.1. Company

11.1.2. Company

11.1.3. Company

11.2. Top Market Strategies

11.3. Company Profiles

11.3.1. Continental AG.

11.3.1.1. Key Information

11.3.1.2. Overview

11.3.1.3. Financial (Subject to Data Availability)

11.3.1.4. Product Summary

11.3.1.5. Market Strategies

11.3.2. Robert Bosch GmbH

11.3.3. Infineon Technologies AG

11.3.4. ZF Friedrichshafen AG

11.3.5. Vitesco Technologies GmbH

11.3.6. Company

11.3.7. Company

11.3.8. Company

11.3.9. Company

11.3.10. Company

CHAPTER 12. RESEARCH PROCESS

12.1. Research Process

12.1.1. Data Mining

12.1.2. Analysis

12.1.3. Market Estimation

12.1.4. Validation

12.1.5. Publishing

12.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Europe Automotive Traction Inverters market, report scope

TABLE 2. Europe Automotive Traction Inverters market estimates & forecasts by Country 2022-2032 (USD Billion)

TABLE 3. Europe Automotive Traction Inverters market estimates & forecasts by Propulsion Type 2022-2032 (USD Billion)

TABLE 4. Europe Automotive Traction Inverters market estimates & forecasts by Output Power 2022-2032 (USD Billion)

TABLE 5. Europe Automotive Traction Inverters market estimates & forecasts by Semiconductor Material 2022-2032 (USD Billion)

TABLE 6. Europe Automotive Traction Inverters market estimates & forecasts by Technology Type 2022-2032 (USD Billion)

TABLE 7. Europe Automotive Traction Inverters market estimates & forecasts by Vehicle Type 2022-2032 (USD Billion)

TABLE 8. Europe Automotive Traction Inverters market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Europe Automotive Traction Inverters market by country, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Europe Automotive Traction Inverters market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Europe Automotive Traction Inverters market by country, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Europe Automotive Traction Inverters market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Europe Automotive Traction Inverters market by country, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Europe Automotive Traction Inverters market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. Europe Automotive Traction Inverters market by country, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. Europe Automotive Traction Inverters market by segment, estimates & forecasts, 2022-2032 (USD Billion) Europe Automotive Traction Inverters market by country, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 17. UK Automotive Traction Inverters market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 18. UK Automotive Traction Inverters market estimates & forecasts by segment

2022-2032 (USD Billion)

TABLE 19. UK Automotive Traction Inverters market estimates & forecasts by segment
2022-2032 (USD Billion)

TABLE 20. Germany Automotive Traction Inverters market estimates & forecasts,
2022-2032 (USD Billion)

TABLE 21. Germany Automotive Traction Inverters market estimates & forecasts by
segment 2022-2032 (USD Billion)

TABLE 22. Germany Automotive Traction Inverters market estimates & forecasts by
segment 2022-2032 (USD Billion)

TABLE 23. France Automotive Traction Inverters market estimates & forecasts,
2022-2032 (USD Billion)

TABLE 24. France Automotive Traction Inverters market estimates & forecasts by
segment 2022-2032 (USD Billion)

TABLE 25. France Automotive Traction Inverters market estimates & forecasts by
segment 2022-2032 (USD Billion)

TABLE 26. Italy Automotive Traction Inverters market estimates & forecasts, 2022-2032
(USD Billion)

TABLE 27. Italy Automotive Traction Inverters market estimates & forecasts by segment
2022-2032 (USD Billion)

TABLE 28. Italy Automotive Traction Inverters market estimates & forecasts by segment
2022-2032 (USD Billion)

TABLE 29. Spain Automotive Traction Inverters market estimates & forecasts,
2022-2032 (USD Billion)

TABLE 30. Spain Automotive Traction Inverters market estimates & forecasts by
segment 2022-2032 (USD Billion)

TABLE 31. Spain Automotive Traction Inverters market estimates & forecasts by
segment 2022-2032 (USD Billion)

TABLE 32. RoE Automotive Traction Inverters market estimates & forecasts, 2022-2032
(USD Billion)

TABLE 33. RoE Automotive Traction Inverters market estimates & forecasts by
segment 2022-2032 (USD Billion)

TABLE 34. RoE Automotive Traction Inverters market estimates & forecasts by
segment 2022-2032 (USD Billion)

TABLE 35. List of secondary sources, used in the study of Europe Automotive Traction
Inverters Market.

TABLE 36. List of primary sources, used in the study of Europe Automotive Traction
Inverters Market.

TABLE 37. Years considered for the study.

TABLE 38. Exchange rates considered

List Of Figures

LIST OF FIGURES

- FIG 1. Europe Automotive Traction Inverters market, research methodology
- FIG 2. Europe Automotive Traction Inverters market, market estimation techniques
- FIG 3. Europe market size estimates & forecast methods.
- FIG 4. Europe Automotive Traction Inverters market, key trends 2023
- FIG 5. Europe Automotive Traction Inverters market, growth prospects 2022-2032
- FIG 6. Europe Automotive Traction Inverters market, porters 5 force model
- FIG 7. Europe Automotive Traction Inverters market, pestel analysis
- FIG 8. Europe Automotive Traction Inverters market, value chain analysis
- FIG 9. Europe Automotive Traction Inverters market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Europe Automotive Traction Inverters market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Europe Automotive Traction Inverters market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Europe Automotive Traction Inverters market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Europe Automotive Traction Inverters market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Europe Automotive Traction Inverters market, Country snapshot 2022 & 2032
- FIG 15. Europe Automotive Traction Inverters market 2022 & 2032 (USD Billion)
- FIG 16. Europe Automotive Traction Inverters market, company market share analysis (2023)

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