

US 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) Forecasts 2022-2032

<https://marketpublishers.com/r/U9A47ADBE61CEN.html>

Date: July 2024

Pages: 200

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

ID: U9A47ADBE61CEN

Abstracts

US Automotive Traction Inverters Market is valued approximately USD 1.18 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 16.87% over the forecast period 2024-2032. An automotive traction inverter is a vital component in electric and hybrid vehicles. It converts the direct current (DC) from the vehicle's battery pack into alternating current (AC) to power the electric motor or motors. This conversion is essential for managing the motor's speed and torque, ensuring the vehicle operates efficiently and smoothly. Additionally, traction inverters are integral to regenerative braking systems, where they convert the kinetic energy generated during braking back into electrical energy, which can then be stored in the battery pack for future use. Automakers in the US are placing a strong emphasis on improving the performance and efficiency of electric vehicles. This trend is driving the development of more advanced traction inverters capable of delivering higher power output, faster response times, and greater energy efficiency, enhancing the overall driving experience.

The United States is experiencing a rapid increase in the adoption of electric vehicles, driven by factors such as environmental concerns, government incentives, and improvements in battery technology. This surge in EV adoption directly correlates with

the demand for automotive traction inverters, which are essential components of electric drivetrains. Moreover, Government incentives, such as tax credits and subsidies for electric vehicle purchases, and stringent emissions regulations are driving automakers to invest in electric and hybrid vehicles, thus boosting the demand for traction inverters. Thus, rising electric vehicles adoption in the region is fostering market growth. Furthermore, US Automotive Traction Inverters Market is driven by focus on domestic manufacturing and rising technological advancement in the inverters. However, high cost of inverters and availability of substitutes technology stifle market growth between 2022 and 2032.

Major market player included in this report are:

Tesla, Inc.

General Motors (GM)

Ford Motor Company

Lucid Motors

BorgWarner Inc

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

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

Contents

CHAPTER 1. US 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. US Automotive Traction Inverters Market Size & Forecast (2022- 2032)
- 2.2. Segmental Summary
 - 2.2.1. By Propulsion Type
 - 2.2.2. By Output Power
 - 2.2.3. By Semiconductor Material
 - 2.2.4. By Technology Type
 - 2.2.5. By Vehicle Type
- 2.3. Key Trends
- 2.4. Recession Impact
- 2.5. Analyst Recommendation & Conclusion

CHAPTER 3. US AUTOMOTIVE TRACTION INVERTERS MARKET DYNAMICS

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

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

CHAPTER 4. US 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. US AUTOMOTIVE TRACTION INVERTERS MARKET SIZE & FORECASTS BY PROPULSION TYPE 2022-2032

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

CHAPTER 6. US AUTOMOTIVE TRACTION INVERTERS MARKET SIZE & FORECASTS BY OUTPUT POWER 2022-2032

6.1. Less Than or Equal to 130 kW

6.2. More Than 130 kW

CHAPTER 7. US 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. US AUTOMOTIVE TRACTION INVERTERS MARKET SIZE & FORECASTS BY TECHNOLOGY TYPE 2022-2032

8.1. IGBT

8.2. MOSFET

CHAPTER 9. US 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. COMPETITIVE INTELLIGENCE

10.1. Key Company SWOT Analysis

10.1.1. Company

10.1.2. Company

10.1.3. Company

10.2. Top Market Strategies

10.3. Company Profiles

10.3.1. Tesla, Inc.

10.3.1.1. Key Information

10.3.1.2. Overview

10.3.1.3. Financial (Subject to Data Availability)

10.3.1.4. Product Summary

10.3.1.5. Market Strategies

10.3.2. General Motors (GM)

10.3.3. Ford Motor Company

- 10.3.4. Lucid Motors
- 10.3.5. BorgWarner Inc
- 10.3.6. Company
- 10.3.7. Company
- 10.3.8. Company
- 10.3.9. Company
- 10.3.10. Company

CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
 - 11.1.1. Data Mining
 - 11.1.2. Analysis
 - 11.1.3. Market Estimation
 - 11.1.4. Validation
 - 11.1.5. Publishing
- 11.2. Research Attributes

List Of Tables

LIST OF TABLES

- TABLE 1. US Automotive Traction Inverters market, report scope
- TABLE 2. US Automotive Traction Inverters market estimates & forecasts by Propulsion Type 2022-2032 (USD Billion)
- TABLE 3. US Automotive Traction Inverters market estimates & forecasts by Output Power 2022-2032 (USD Billion)
- TABLE 4. US Automotive Traction Inverters market estimates & forecasts by Semiconductor Material 2022-2032 (USD Billion)
- TABLE 5. US Automotive Traction Inverters market estimates & forecasts by Technology Type 2022-2032 (USD Billion)
- TABLE 6. US Automotive Traction Inverters market estimates & forecasts by Vehicle Type 2022-2032 (USD Billion)
- TABLE 7. US Automotive Traction Inverters market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 8. US Automotive Traction Inverters market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 9. US Automotive Traction Inverters market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 10. US Automotive Traction Inverters market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 11. US Automotive Traction Inverters market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 12. U.S. Automotive Traction Inverters market estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 13. U.S. Automotive Traction Inverters market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 14. U.S. Automotive Traction Inverters market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 15. List of secondary sources, used in the study of US Automotive Traction Inverters Market.
- TABLE 16. List of primary sources, used in the study of US Automotive Traction Inverters Market.
- TABLE 17. Years considered for the study.
- TABLE 18. Exchange rates considered

List Of Figures

LIST OF FIGURES

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

I would like to order

Product name: US 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) Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/U9A47ADBE61CEN.html>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/U9A47ADBE61CEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970