

# Automotive Alternator Market Report by Powertrain Type (IC Engine Vehicles, Hybrid and Electric Vehicles), Vehicle Type (Passenger Cars, Commercial Vehicles), and Region 2024-2032

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## Abstracts

The global automotive alternator market size reached US\$ 25.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 41.1 Billion by 2032, exhibiting a growth rate (CAGR) of 5.26% during 2024-2032.

Automotive alternators refer to the three-phase generators with a built-in rectifier circuit that is employed in modern automobiles to charge the battery and power electrical systems while their engine is operating. They consist of a rotor, the stator, output diodes, and the diode trio as standard parts. Additionally, automotive alternators include charging systems, batteries, voltage regulators, and alternators as major components. Automotive alternators aid in powering various vehicle electrical machinery, including instrument panels and interior and exterior lights. Along with this, they assist in generating alternating current (AC) power by electromagnetism and converting mechanical into electrical energy. As a result, automotive alternators are widely incorporated into commercial, light, and commercial vehicles. Currently, they are mainly available in salient pole and cylindrical rotor types.

### Automotive Alternator Market Trends:

The considerable expansion in the automotive industry and the ongoing production and sales of various hybrid and electric vehicles (HEVs/EVs) are primarily driving the market growth. Automotive alternators are widely incorporated in the electrical systems of such automobiles to activate multiple electronic components of vehicles. Furthermore, the implementation of several green initiatives by governments has prompted manufacturers to use hybrid powertrain systems to mitigate carbon emissions from

vehicles, which is supplementing the product demand. Additionally, the extensive utilization of automotive alternators in several off-road and emergency vehicles to carry large amounts of snowplow by producing excessive drag on the electrical systems is impelling the market growth. Moreover, the shifting inclination toward the high output automotive alternators over conventional product variants, owing to long-lasting battery life and better electricity supply, is contributing to the market growth. Other factors, such as inflating consumer disposable incomes, the growing need for lightweight cars, and strategic collaborations amongst original equipment manufacturers (OEMs) to enhance product efficacy, are supporting the market growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global automotive alternator market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on powertrain type and vehicle type.

#### Breakup by Powertrain Type:

- IC Engine Vehicles
- Hybrid and Electric Vehicles

#### Breakup by Vehicle Type:

- Passenger Cars
- Commercial Vehicles

#### Breakup by Region:

- North America
  - United States
  - Canada
- Asia-Pacific
  - China
  - Japan
  - India
  - South Korea
- Australia
- Indonesia
- Others

Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being BorgWarner Inc., DENSO Corporation, Hella KGaA Hueck & Co. (Faurecia SE), Hitachi Ltd., Hyundai Mobis (Hyundai Motor Group), Jinzhou Halla Electrical Equipment Co. Ltd, MAHLE GmbH (Mahle Stiftung GmbH), Mecc Alte SpA (Co.mecc.fin.srl), Mitsubishi Electric Corporation, Motorcar Parts of America Inc., Prestolite Electric Incorporated (Prestolite Electric Holding Inc.), Robert Bosch GmbH (Robert Bosch Stiftung GmbH) and Valeo.

#### Key Questions Answered in This Report

1. What was the size of the global automotive alternator market in 2023?
2. What is the expected growth rate of the global automotive alternator market during 2024-2032?
3. What are the key factors driving the global automotive alternator market?
4. What has been the impact of COVID-19 on the global automotive alternator market?
5. What is the breakup of the global automotive alternator market based on the powertrain type?
6. What is the breakup of the global automotive alternator market based on the vehicle type?
7. What are the key regions in the global automotive alternator market?
8. Who are the key players/companies in the global automotive alternator market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL AUTOMOTIVE ALTERNATOR MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY POWERTRAIN TYPE**

- 6.1 IC Engine Vehicles
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Hybrid and Electric Vehicles
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast

## **7 MARKET BREAKUP BY VEHICLE TYPE**

- 7.1 Passenger Cars
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Commercial Vehicles
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast

## **8 MARKET BREAKUP BY REGION**

- 8.1 North America
  - 8.1.1 United States
    - 8.1.1.1 Market Trends
    - 8.1.1.2 Market Forecast
  - 8.1.2 Canada
    - 8.1.2.1 Market Trends
    - 8.1.2.2 Market Forecast
- 8.2 Asia-Pacific
  - 8.2.1 China
    - 8.2.1.1 Market Trends
    - 8.2.1.2 Market Forecast
  - 8.2.2 Japan
    - 8.2.2.1 Market Trends
    - 8.2.2.2 Market Forecast
  - 8.2.3 India
    - 8.2.3.1 Market Trends
    - 8.2.3.2 Market Forecast
  - 8.2.4 South Korea
    - 8.2.4.1 Market Trends
    - 8.2.4.2 Market Forecast
  - 8.2.5 Australia
    - 8.2.5.1 Market Trends
    - 8.2.5.2 Market Forecast
  - 8.2.6 Indonesia
    - 8.2.6.1 Market Trends
    - 8.2.6.2 Market Forecast
  - 8.2.7 Others
    - 8.2.7.1 Market Trends

#### 8.2.7.2 Market Forecast

### 8.3 Europe

#### 8.3.1 Germany

##### 8.3.1.1 Market Trends

##### 8.3.1.2 Market Forecast

#### 8.3.2 France

##### 8.3.2.1 Market Trends

##### 8.3.2.2 Market Forecast

#### 8.3.3 United Kingdom

##### 8.3.3.1 Market Trends

##### 8.3.3.2 Market Forecast

#### 8.3.4 Italy

##### 8.3.4.1 Market Trends

##### 8.3.4.2 Market Forecast

#### 8.3.5 Spain

##### 8.3.5.1 Market Trends

##### 8.3.5.2 Market Forecast

#### 8.3.6 Russia

##### 8.3.6.1 Market Trends

##### 8.3.6.2 Market Forecast

#### 8.3.7 Others

##### 8.3.7.1 Market Trends

##### 8.3.7.2 Market Forecast

### 8.4 Latin America

#### 8.4.1 Brazil

##### 8.4.1.1 Market Trends

##### 8.4.1.2 Market Forecast

#### 8.4.2 Mexico

##### 8.4.2.1 Market Trends

##### 8.4.2.2 Market Forecast

#### 8.4.3 Others

##### 8.4.3.1 Market Trends

##### 8.4.3.2 Market Forecast

### 8.5 Middle East and Africa

#### 8.5.1 Market Trends

#### 8.5.2 Market Breakup by Country

#### 8.5.3 Market Forecast

## 9 SWOT ANALYSIS

- 9.1 Overview
- 9.2 Strengths
- 9.3 Weaknesses
- 9.4 Opportunities
- 9.5 Threats

## **10 VALUE CHAIN ANALYSIS**

## **11 PORTERS FIVE FORCES ANALYSIS**

- 11.1 Overview
- 11.2 Bargaining Power of Buyers
- 11.3 Bargaining Power of Suppliers
- 11.4 Degree of Competition
- 11.5 Threat of New Entrants
- 11.6 Threat of Substitutes

## **12 PRICE ANALYSIS**

## **13 COMPETITIVE LANDSCAPE**

- 13.1 Market Structure
- 13.2 Key Players
- 13.3 Profiles of Key Players
  - 13.3.1 BorgWarner Inc.
    - 13.3.1.1 Company Overview
    - 13.3.1.2 Product Portfolio
    - 13.3.1.3 Financials
    - 13.3.1.4 SWOT Analysis
  - 13.3.2 DENSO Corporation
    - 13.3.2.1 Company Overview
    - 13.3.2.2 Product Portfolio
    - 13.3.2.3 Financials
    - 13.3.2.4 SWOT Analysis
  - 13.3.3 Hella KGaA Hueck & Co. (Faurecia SE)
    - 13.3.3.1 Company Overview
    - 13.3.3.2 Product Portfolio
    - 13.3.3.3 Financials

### 13.3.4 Hitachi Ltd.

13.3.4.1 Company Overview

13.3.4.2 Product Portfolio

13.3.4.3 Financials

13.3.4.4 SWOT Analysis

### 13.3.5 Hyundai Mobis (Hyundai Motor Group)

13.3.5.1 Company Overview

13.3.5.2 Product Portfolio

13.3.5.3 Financials

### 13.3.6 Jinzhou Halla Electrical Equipment Co. Ltd

13.3.6.1 Company Overview

13.3.6.2 Product Portfolio

### 13.3.7 MAHLE GmbH (Mahle Stiftung GmbH)

13.3.7.1 Company Overview

13.3.7.2 Product Portfolio

13.3.7.3 SWOT Analysis

### 13.3.8 Mecc Alte SpA (Co.mecc.fin.srl)

13.3.8.1 Company Overview

13.3.8.2 Product Portfolio

### 13.3.9 Mitsubishi Electric Corporation

13.3.9.1 Company Overview

13.3.9.2 Product Portfolio

13.3.9.3 Financials

13.3.9.4 SWOT Analysis

### 13.3.10 Motorcar Parts of America Inc.

13.3.10.1 Company Overview

13.3.10.2 Product Portfolio

13.3.10.3 Financials

### 13.3.11 Prestolite Electric Incorporated (Prestolite Electric Holding Inc.)

13.3.11.1 Company Overview

13.3.11.2 Product Portfolio

### 13.3.12 Robert Bosch GmbH (Robert Bosch Stiftung GmbH)

13.3.12.1 Company Overview

13.3.12.2 Product Portfolio

13.3.12.3 SWOT Analysis

### 13.3.13 Valeo

13.3.13.1 Company Overview

13.3.13.2 Product Portfolio

13.3.13.3 Financials



### 13.3.13.4 SWOT Analysis

## List Of Tables

### LIST OF TABLES

Table 1: Global: Automotive Alternator Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Automotive Alternator Market Forecast: Breakup by Powertrain Type (in Million US\$), 2024-2032

Table 3: Global: Automotive Alternator Market Forecast: Breakup by Vehicle Type (in Million US\$), 2024-2032

Table 4: Global: Automotive Alternator Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 5: Global: Automotive Alternator Market: Competitive Structure

Table 6: Global: Automotive Alternator Market: Key Players

## List Of Figures

### LIST OF FIGURES

- Figure 1: Global: Automotive Alternator Market: Major Drivers and Challenges
- Figure 2: Global: Automotive Alternator Market: Sales Value (in Billion US\$), 2018-2023
- Figure 3: Global: Automotive Alternator Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 4: Global: Automotive Alternator Market: Breakup by Powertrain Type (in %), 2023
- Figure 5: Global: Automotive Alternator Market: Breakup by Vehicle Type (in %), 2023
- Figure 6: Global: Automotive Alternator Market: Breakup by Region (in %), 2023
- Figure 7: Global: Automotive Alternator (IC Engine Vehicles) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 8: Global: Automotive Alternator (IC Engine Vehicles) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 9: Global: Automotive Alternator (Hybrid and Electric Vehicles) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 10: Global: Automotive Alternator (Hybrid and Electric Vehicles) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 11: Global: Automotive Alternator (Passenger Cars) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 12: Global: Automotive Alternator (Passenger Cars) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 13: Global: Automotive Alternator (Commercial Vehicles) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 14: Global: Automotive Alternator (Commercial Vehicles) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 15: North America: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 16: North America: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 17: United States: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 18: United States: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 19: Canada: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 20: Canada: Automotive Alternator Market Forecast: Sales Value (in Million

US\$), 2024-2032

Figure 21: Asia-Pacific: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Asia-Pacific: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: China: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: China: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Japan: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Japan: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: India: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: India: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: South Korea: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: South Korea: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Australia: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Australia: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Indonesia: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Indonesia: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: Others: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: Others: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Europe: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Europe: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Germany: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Germany: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: France: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: France: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: United Kingdom: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: United Kingdom: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Italy: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Italy: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Spain: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Spain: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Russia: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Russia: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Others: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Others: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Latin America: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Latin America: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Brazil: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Brazil: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Mexico: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Mexico: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Others: Automotive Alternator Market: Sales Value (in Million US\$), 2018 &

2023

Figure 60: Others: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Middle East and Africa: Automotive Alternator Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Middle East and Africa: Automotive Alternator Market: Breakup by Country (in %), 2023

Figure 63: Middle East and Africa: Automotive Alternator Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 64: Global: Automotive Alternator Industry: SWOT Analysis

Figure 65: Global: Automotive Alternator Industry: Value Chain Analysis

Figure 66: Global: Automotive Alternator Industry: Porter's Five Forces Analysis

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