

# Global On-Board AC-DC Charger Market Research Report 2024(Status and Outlook)

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## Abstracts

### Report Overview

The on-board charger can be divided according to the number of phases (one phase, two-phase or three-phase) and output. The power output of the on-board charger is usually between 3.7 kW and 22 kW. The on-board charger allows you to control the current and voltage that the battery needs to charge (voltage or current control mode), thus guaranteeing the longevity of the battery. The charger provides constant current or constant voltage charging, both of which are easy to operate. They each have advantages and disadvantages. In the case of constant-current charging, the efficiency and charging speed are high, but there is a risk of overcharging the battery at a later stage, shortening its life. In the case of constant voltage charging, there can be too much current flowing into the battery from the start, which can overheat the battery and shorten its life again. Therefore, the charger ensures that it is initially charged at a constant current, thus maintaining speed and efficiency, and when the voltage across the battery reaches a certain magnitude, the charger changes to constant voltage charging. This system, called charging strategy, is the most important function of an on-board charger. The first stage is the so-called PFC stage (Power Factor Controller or Power Factor Correction), which converts alternating current to direct current. This part of the charger determines whether it can use single-phase, two-phase or three-phase AC power. The output voltage of 700V then goes into the second phase. The second stage is called LLC converter. The input is the above 700V, and the output is the voltage required by the battery at a given charging moment.

This report provides a deep insight into the global On-Board AC-DC Charger market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche

market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global On-Board AC-DC Charger Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the On-Board AC-DC Charger market in any manner.

### Global On-Board AC-DC Charger Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

#### Key Company

BYD

Nichicon

Tesla

Infineon

Panasonic

Delphi

LG

Lear

Dilong Technology

Kongsberg

Kenergy

Wanma

IES

Anghua

Lester

Tonhe Technology

Market Segmentation (by Type)

One Phase

Two Phases

Three Phases

Market Segmentation (by Application)

PHEV

EV

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

#### Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the On-Board AC-DC Charger Market

Overview of the regional outlook of the On-Board AC-DC Charger Market:

#### Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your

marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

## Customization of the Report

In case of any queries or customization requirements, please connect with our sales

team, who will ensure that your requirements are met.

## Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the On-Board AC-DC Charger Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of On-Board AC-DC Charger
- 1.2 Key Market Segments
  - 1.2.1 On-Board AC-DC Charger Segment by Type
  - 1.2.2 On-Board AC-DC Charger Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats
- 1.4 Key Data of Global Auto Market
  - 1.4.1 Global Automobile Production by Country
  - 1.4.2 Global Automobile Production by Type

### **2 ON-BOARD AC-DC CHARGER MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global On-Board AC-DC Charger Market Size (M USD) Estimates and Forecasts (2019-2030)
  - 2.1.2 Global On-Board AC-DC Charger Sales Estimates and Forecasts (2019-2030)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 ON-BOARD AC-DC CHARGER MARKET COMPETITIVE LANDSCAPE**

- 3.1 Global On-Board AC-DC Charger Sales by Manufacturers (2019-2024)
- 3.2 Global On-Board AC-DC Charger Revenue Market Share by Manufacturers (2019-2024)
- 3.3 On-Board AC-DC Charger Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.4 Global On-Board AC-DC Charger Average Price by Manufacturers (2019-2024)
- 3.5 Manufacturers On-Board AC-DC Charger Sales Sites, Area Served, Product Type
- 3.6 On-Board AC-DC Charger Market Competitive Situation and Trends
  - 3.6.1 On-Board AC-DC Charger Market Concentration Rate
  - 3.6.2 Global 5 and 10 Largest On-Board AC-DC Charger Players Market Share by

Revenue

3.6.3 Mergers & Acquisitions, Expansion

## **4 ON-BOARD AC-DC CHARGER INDUSTRY CHAIN ANALYSIS**

4.1 On-Board AC-DC Charger Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF ON-BOARD AC-DC CHARGER MARKET**

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

## **6 ON-BOARD AC-DC CHARGER MARKET SEGMENTATION BY TYPE**

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global On-Board AC-DC Charger Sales Market Share by Type (2019-2024)

6.3 Global On-Board AC-DC Charger Market Size Market Share by Type (2019-2024)

6.4 Global On-Board AC-DC Charger Price by Type (2019-2024)

## **7 ON-BOARD AC-DC CHARGER MARKET SEGMENTATION BY APPLICATION**

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global On-Board AC-DC Charger Market Sales by Application (2019-2024)

7.3 Global On-Board AC-DC Charger Market Size (M USD) by Application (2019-2024)

7.4 Global On-Board AC-DC Charger Sales Growth Rate by Application (2019-2024)

## **8 ON-BOARD AC-DC CHARGER MARKET SEGMENTATION BY REGION**

## 8.1 Global On-Board AC-DC Charger Sales by Region

### 8.1.1 Global On-Board AC-DC Charger Sales by Region

### 8.1.2 Global On-Board AC-DC Charger Sales Market Share by Region

## 8.2 North America

### 8.2.1 North America On-Board AC-DC Charger Sales by Country

#### 8.2.2 U.S.

#### 8.2.3 Canada

#### 8.2.4 Mexico

## 8.3 Europe

### 8.3.1 Europe On-Board AC-DC Charger Sales by Country

#### 8.3.2 Germany

#### 8.3.3 France

#### 8.3.4 U.K.

#### 8.3.5 Italy

#### 8.3.6 Russia

## 8.4 Asia Pacific

### 8.4.1 Asia Pacific On-Board AC-DC Charger Sales by Region

#### 8.4.2 China

#### 8.4.3 Japan

#### 8.4.4 South Korea

#### 8.4.5 India

#### 8.4.6 Southeast Asia

## 8.5 South America

### 8.5.1 South America On-Board AC-DC Charger Sales by Country

#### 8.5.2 Brazil

#### 8.5.3 Argentina

#### 8.5.4 Columbia

## 8.6 Middle East and Africa

### 8.6.1 Middle East and Africa On-Board AC-DC Charger Sales by Region

#### 8.6.2 Saudi Arabia

#### 8.6.3 UAE

#### 8.6.4 Egypt

#### 8.6.5 Nigeria

#### 8.6.6 South Africa

## 9 KEY COMPANIES PROFILE

### 9.1 BYD

- 9.1.1 BYD On-Board AC-DC Charger Basic Information
- 9.1.2 BYD On-Board AC-DC Charger Product Overview
- 9.1.3 BYD On-Board AC-DC Charger Product Market Performance
- 9.1.4 BYD Business Overview
- 9.1.5 BYD On-Board AC-DC Charger SWOT Analysis
- 9.1.6 BYD Recent Developments
- 9.2 Nichicon
  - 9.2.1 Nichicon On-Board AC-DC Charger Basic Information
  - 9.2.2 Nichicon On-Board AC-DC Charger Product Overview
  - 9.2.3 Nichicon On-Board AC-DC Charger Product Market Performance
  - 9.2.4 Nichicon Business Overview
  - 9.2.5 Nichicon On-Board AC-DC Charger SWOT Analysis
  - 9.2.6 Nichicon Recent Developments
- 9.3 Tesla
  - 9.3.1 Tesla On-Board AC-DC Charger Basic Information
  - 9.3.2 Tesla On-Board AC-DC Charger Product Overview
  - 9.3.3 Tesla On-Board AC-DC Charger Product Market Performance
  - 9.3.4 Tesla On-Board AC-DC Charger SWOT Analysis
  - 9.3.5 Tesla Business Overview
  - 9.3.6 Tesla Recent Developments
- 9.4 Infineon
  - 9.4.1 Infineon On-Board AC-DC Charger Basic Information
  - 9.4.2 Infineon On-Board AC-DC Charger Product Overview
  - 9.4.3 Infineon On-Board AC-DC Charger Product Market Performance
  - 9.4.4 Infineon Business Overview
  - 9.4.5 Infineon Recent Developments
- 9.5 Panasonic
  - 9.5.1 Panasonic On-Board AC-DC Charger Basic Information
  - 9.5.2 Panasonic On-Board AC-DC Charger Product Overview
  - 9.5.3 Panasonic On-Board AC-DC Charger Product Market Performance
  - 9.5.4 Panasonic Business Overview
  - 9.5.5 Panasonic Recent Developments
- 9.6 Delphi
  - 9.6.1 Delphi On-Board AC-DC Charger Basic Information
  - 9.6.2 Delphi On-Board AC-DC Charger Product Overview
  - 9.6.3 Delphi On-Board AC-DC Charger Product Market Performance
  - 9.6.4 Delphi Business Overview
  - 9.6.5 Delphi Recent Developments
- 9.7 LG

- 9.7.1 LG On-Board AC-DC Charger Basic Information
- 9.7.2 LG On-Board AC-DC Charger Product Overview
- 9.7.3 LG On-Board AC-DC Charger Product Market Performance
- 9.7.4 LG Business Overview
- 9.7.5 LG Recent Developments

## 9.8 Lear

- 9.8.1 Lear On-Board AC-DC Charger Basic Information
- 9.8.2 Lear On-Board AC-DC Charger Product Overview
- 9.8.3 Lear On-Board AC-DC Charger Product Market Performance
- 9.8.4 Lear Business Overview
- 9.8.5 Lear Recent Developments

## 9.9 Dilong Technology

- 9.9.1 Dilong Technology On-Board AC-DC Charger Basic Information
- 9.9.2 Dilong Technology On-Board AC-DC Charger Product Overview
- 9.9.3 Dilong Technology On-Board AC-DC Charger Product Market Performance
- 9.9.4 Dilong Technology Business Overview
- 9.9.5 Dilong Technology Recent Developments

## 9.10 Kongsberg

- 9.10.1 Kongsberg On-Board AC-DC Charger Basic Information
- 9.10.2 Kongsberg On-Board AC-DC Charger Product Overview
- 9.10.3 Kongsberg On-Board AC-DC Charger Product Market Performance
- 9.10.4 Kongsberg Business Overview
- 9.10.5 Kongsberg Recent Developments

## 9.11 Kenergy

- 9.11.1 Kenergy On-Board AC-DC Charger Basic Information
- 9.11.2 Kenergy On-Board AC-DC Charger Product Overview
- 9.11.3 Kenergy On-Board AC-DC Charger Product Market Performance
- 9.11.4 Kenergy Business Overview
- 9.11.5 Kenergy Recent Developments

## 9.12 Wanma

- 9.12.1 Wanma On-Board AC-DC Charger Basic Information
- 9.12.2 Wanma On-Board AC-DC Charger Product Overview
- 9.12.3 Wanma On-Board AC-DC Charger Product Market Performance
- 9.12.4 Wanma Business Overview
- 9.12.5 Wanma Recent Developments

## 9.13 IES

- 9.13.1 IES On-Board AC-DC Charger Basic Information
- 9.13.2 IES On-Board AC-DC Charger Product Overview
- 9.13.3 IES On-Board AC-DC Charger Product Market Performance

9.13.4 IES Business Overview

9.13.5 IES Recent Developments

9.14 Anghua

9.14.1 Anghua On-Board AC-DC Charger Basic Information

9.14.2 Anghua On-Board AC-DC Charger Product Overview

9.14.3 Anghua On-Board AC-DC Charger Product Market Performance

9.14.4 Anghua Business Overview

9.14.5 Anghua Recent Developments

9.15 Lester

9.15.1 Lester On-Board AC-DC Charger Basic Information

9.15.2 Lester On-Board AC-DC Charger Product Overview

9.15.3 Lester On-Board AC-DC Charger Product Market Performance

9.15.4 Lester Business Overview

9.15.5 Lester Recent Developments

9.16 Tonhe Technology

9.16.1 Tonhe Technology On-Board AC-DC Charger Basic Information

9.16.2 Tonhe Technology On-Board AC-DC Charger Product Overview

9.16.3 Tonhe Technology On-Board AC-DC Charger Product Market Performance

9.16.4 Tonhe Technology Business Overview

9.16.5 Tonhe Technology Recent Developments

## **10 ON-BOARD AC-DC CHARGER MARKET FORECAST BY REGION**

10.1 Global On-Board AC-DC Charger Market Size Forecast

10.2 Global On-Board AC-DC Charger Market Forecast by Region

10.2.1 North America Market Size Forecast by Country

10.2.2 Europe On-Board AC-DC Charger Market Size Forecast by Country

10.2.3 Asia Pacific On-Board AC-DC Charger Market Size Forecast by Region

10.2.4 South America On-Board AC-DC Charger Market Size Forecast by Country

10.2.5 Middle East and Africa Forecasted Consumption of On-Board AC-DC Charger by Country

## **11 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2030)**

11.1 Global On-Board AC-DC Charger Market Forecast by Type (2025-2030)

11.1.1 Global Forecasted Sales of On-Board AC-DC Charger by Type (2025-2030)

11.1.2 Global On-Board AC-DC Charger Market Size Forecast by Type (2025-2030)

11.1.3 Global Forecasted Price of On-Board AC-DC Charger by Type (2025-2030)

11.2 Global On-Board AC-DC Charger Market Forecast by Application (2025-2030)

- 11.2.1 Global On-Board AC-DC Charger Sales (K Units) Forecast by Application
- 11.2.2 Global On-Board AC-DC Charger Market Size (M USD) Forecast by Application (2025-2030)

## **12 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Automobile Production by Country (Vehicle)
- Table 4. Importance and Development Potential of Automobiles in Various Countries
- Table 5. Global Automobile Production by Type
- Table 6. Importance and Development Potential of Automobiles in Various Type
- Table 7. Market Size (M USD) Segment Executive Summary
- Table 8. On-Board AC-DC Charger Market Size Comparison by Region (M USD)
- Table 9. Global On-Board AC-DC Charger Sales (K Units) by Manufacturers (2019-2024)
- Table 10. Global On-Board AC-DC Charger Sales Market Share by Manufacturers (2019-2024)
- Table 11. Global On-Board AC-DC Charger Revenue (M USD) by Manufacturers (2019-2024)
- Table 12. Global On-Board AC-DC Charger Revenue Share by Manufacturers (2019-2024)
- Table 13. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in On-Board AC-DC Charger as of 2022)
- Table 14. Global Market On-Board AC-DC Charger Average Price (USD/Unit) of Key Manufacturers (2019-2024)
- Table 15. Manufacturers On-Board AC-DC Charger Sales Sites and Area Served
- Table 16. Manufacturers On-Board AC-DC Charger Product Type
- Table 17. Global On-Board AC-DC Charger Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 18. Mergers & Acquisitions, Expansion Plans
- Table 19. Industry Chain Map of On-Board AC-DC Charger
- Table 20. Market Overview of Key Raw Materials
- Table 21. Midstream Market Analysis
- Table 22. Downstream Customer Analysis
- Table 23. Key Development Trends
- Table 24. Driving Factors
- Table 25. On-Board AC-DC Charger Market Challenges
- Table 26. Global On-Board AC-DC Charger Sales by Type (K Units)
- Table 27. Global On-Board AC-DC Charger Market Size by Type (M USD)
- Table 28. Global On-Board AC-DC Charger Sales (K Units) by Type (2019-2024)
- Table 29. Global On-Board AC-DC Charger Sales Market Share by Type (2019-2024)

- Table 30. Global On-Board AC-DC Charger Market Size (M USD) by Type (2019-2024)
- Table 31. Global On-Board AC-DC Charger Market Size Share by Type (2019-2024)
- Table 32. Global On-Board AC-DC Charger Price (USD/Unit) by Type (2019-2024)
- Table 33. Global On-Board AC-DC Charger Sales (K Units) by Application
- Table 34. Global On-Board AC-DC Charger Market Size by Application
- Table 35. Global On-Board AC-DC Charger Sales by Application (2019-2024) & (K Units)
- Table 36. Global On-Board AC-DC Charger Sales Market Share by Application (2019-2024)
- Table 37. Global On-Board AC-DC Charger Sales by Application (2019-2024) & (M USD)
- Table 38. Global On-Board AC-DC Charger Market Share by Application (2019-2024)
- Table 39. Global On-Board AC-DC Charger Sales Growth Rate by Application (2019-2024)
- Table 40. Global On-Board AC-DC Charger Sales by Region (2019-2024) & (K Units)
- Table 41. Global On-Board AC-DC Charger Sales Market Share by Region (2019-2024)
- Table 42. North America On-Board AC-DC Charger Sales by Country (2019-2024) & (K Units)
- Table 43. Europe On-Board AC-DC Charger Sales by Country (2019-2024) & (K Units)
- Table 44. Asia Pacific On-Board AC-DC Charger Sales by Region (2019-2024) & (K Units)
- Table 45. South America On-Board AC-DC Charger Sales by Country (2019-2024) & (K Units)
- Table 46. Middle East and Africa On-Board AC-DC Charger Sales by Region (2019-2024) & (K Units)
- Table 47. BYD On-Board AC-DC Charger Basic Information
- Table 48. BYD On-Board AC-DC Charger Product Overview
- Table 49. BYD On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 50. BYD Business Overview
- Table 51. BYD On-Board AC-DC Charger SWOT Analysis
- Table 52. BYD Recent Developments
- Table 53. Nichicon On-Board AC-DC Charger Basic Information
- Table 54. Nichicon On-Board AC-DC Charger Product Overview
- Table 55. Nichicon On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 56. Nichicon Business Overview
- Table 57. Nichicon On-Board AC-DC Charger SWOT Analysis
- Table 58. Nichicon Recent Developments

Table 59. Tesla On-Board AC-DC Charger Basic Information

Table 60. Tesla On-Board AC-DC Charger Product Overview

Table 61. Tesla On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 62. Tesla On-Board AC-DC Charger SWOT Analysis

Table 63. Tesla Business Overview

Table 64. Tesla Recent Developments

Table 65. Infineon On-Board AC-DC Charger Basic Information

Table 66. Infineon On-Board AC-DC Charger Product Overview

Table 67. Infineon On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 68. Infineon Business Overview

Table 69. Infineon Recent Developments

Table 70. Panasonic On-Board AC-DC Charger Basic Information

Table 71. Panasonic On-Board AC-DC Charger Product Overview

Table 72. Panasonic On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 73. Panasonic Business Overview

Table 74. Panasonic Recent Developments

Table 75. Delphi On-Board AC-DC Charger Basic Information

Table 76. Delphi On-Board AC-DC Charger Product Overview

Table 77. Delphi On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 78. Delphi Business Overview

Table 79. Delphi Recent Developments

Table 80. LG On-Board AC-DC Charger Basic Information

Table 81. LG On-Board AC-DC Charger Product Overview

Table 82. LG On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 83. LG Business Overview

Table 84. LG Recent Developments

Table 85. Lear On-Board AC-DC Charger Basic Information

Table 86. Lear On-Board AC-DC Charger Product Overview

Table 87. Lear On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 88. Lear Business Overview

Table 89. Lear Recent Developments

Table 90. Dilong Technology On-Board AC-DC Charger Basic Information

Table 91. Dilong Technology On-Board AC-DC Charger Product Overview

- Table 92. Dilong Technology On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 93. Dilong Technology Business Overview
- Table 94. Dilong Technology Recent Developments
- Table 95. Kongsberg On-Board AC-DC Charger Basic Information
- Table 96. Kongsberg On-Board AC-DC Charger Product Overview
- Table 97. Kongsberg On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 98. Kongsberg Business Overview
- Table 99. Kongsberg Recent Developments
- Table 100. Kenenergy On-Board AC-DC Charger Basic Information
- Table 101. Kenenergy On-Board AC-DC Charger Product Overview
- Table 102. Kenenergy On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 103. Kenenergy Business Overview
- Table 104. Kenenergy Recent Developments
- Table 105. Wanma On-Board AC-DC Charger Basic Information
- Table 106. Wanma On-Board AC-DC Charger Product Overview
- Table 107. Wanma On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 108. Wanma Business Overview
- Table 109. Wanma Recent Developments
- Table 110. IES On-Board AC-DC Charger Basic Information
- Table 111. IES On-Board AC-DC Charger Product Overview
- Table 112. IES On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 113. IES Business Overview
- Table 114. IES Recent Developments
- Table 115. Anghua On-Board AC-DC Charger Basic Information
- Table 116. Anghua On-Board AC-DC Charger Product Overview
- Table 117. Anghua On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 118. Anghua Business Overview
- Table 119. Anghua Recent Developments
- Table 120. Lester On-Board AC-DC Charger Basic Information
- Table 121. Lester On-Board AC-DC Charger Product Overview
- Table 122. Lester On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 123. Lester Business Overview

- Table 124. Lester Recent Developments
- Table 125. Tonhe Technology On-Board AC-DC Charger Basic Information
- Table 126. Tonhe Technology On-Board AC-DC Charger Product Overview
- Table 127. Tonhe Technology On-Board AC-DC Charger Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 128. Tonhe Technology Business Overview
- Table 129. Tonhe Technology Recent Developments
- Table 130. Global On-Board AC-DC Charger Sales Forecast by Region (2025-2030) & (K Units)
- Table 131. Global On-Board AC-DC Charger Market Size Forecast by Region (2025-2030) & (M USD)
- Table 132. North America On-Board AC-DC Charger Sales Forecast by Country (2025-2030) & (K Units)
- Table 133. North America On-Board AC-DC Charger Market Size Forecast by Country (2025-2030) & (M USD)
- Table 134. Europe On-Board AC-DC Charger Sales Forecast by Country (2025-2030) & (K Units)
- Table 135. Europe On-Board AC-DC Charger Market Size Forecast by Country (2025-2030) & (M USD)
- Table 136. Asia Pacific On-Board AC-DC Charger Sales Forecast by Region (2025-2030) & (K Units)
- Table 137. Asia Pacific On-Board AC-DC Charger Market Size Forecast by Region (2025-2030) & (M USD)
- Table 138. South America On-Board AC-DC Charger Sales Forecast by Country (2025-2030) & (K Units)
- Table 139. South America On-Board AC-DC Charger Market Size Forecast by Country (2025-2030) & (M USD)
- Table 140. Middle East and Africa On-Board AC-DC Charger Consumption Forecast by Country (2025-2030) & (Units)
- Table 141. Middle East and Africa On-Board AC-DC Charger Market Size Forecast by Country (2025-2030) & (M USD)
- Table 142. Global On-Board AC-DC Charger Sales Forecast by Type (2025-2030) & (K Units)
- Table 143. Global On-Board AC-DC Charger Market Size Forecast by Type (2025-2030) & (M USD)
- Table 144. Global On-Board AC-DC Charger Price Forecast by Type (2025-2030) & (USD/Unit)
- Table 145. Global On-Board AC-DC Charger Sales (K Units) Forecast by Application (2025-2030)

Table 146. Global On-Board AC-DC Charger Market Size Forecast by Application  
(2025-2030) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of On-Board AC-DC Charger
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global On-Board AC-DC Charger Market Size (M USD), 2019-2030
- Figure 5. Global On-Board AC-DC Charger Market Size (M USD) (2019-2030)
- Figure 6. Global On-Board AC-DC Charger Sales (K Units) & (2019-2030)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. On-Board AC-DC Charger Market Size by Country (M USD)
- Figure 11. On-Board AC-DC Charger Sales Share by Manufacturers in 2023
- Figure 12. Global On-Board AC-DC Charger Revenue Share by Manufacturers in 2023
- Figure 13. On-Board AC-DC Charger Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market On-Board AC-DC Charger Average Price (USD/Unit) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by On-Board AC-DC Charger Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global On-Board AC-DC Charger Market Share by Type
- Figure 18. Sales Market Share of On-Board AC-DC Charger by Type (2019-2024)
- Figure 19. Sales Market Share of On-Board AC-DC Charger by Type in 2023
- Figure 20. Market Size Share of On-Board AC-DC Charger by Type (2019-2024)
- Figure 21. Market Size Market Share of On-Board AC-DC Charger by Type in 2023
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global On-Board AC-DC Charger Market Share by Application
- Figure 24. Global On-Board AC-DC Charger Sales Market Share by Application (2019-2024)
- Figure 25. Global On-Board AC-DC Charger Sales Market Share by Application in 2023
- Figure 26. Global On-Board AC-DC Charger Market Share by Application (2019-2024)
- Figure 27. Global On-Board AC-DC Charger Market Share by Application in 2023
- Figure 28. Global On-Board AC-DC Charger Sales Growth Rate by Application (2019-2024)
- Figure 29. Global On-Board AC-DC Charger Sales Market Share by Region (2019-2024)

Figure 30. North America On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 31. North America On-Board AC-DC Charger Sales Market Share by Country in 2023

Figure 32. U.S. On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 33. Canada On-Board AC-DC Charger Sales (K Units) and Growth Rate (2019-2024)

Figure 34. Mexico On-Board AC-DC Charger Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 36. Europe On-Board AC-DC Charger Sales Market Share by Country in 2023

Figure 37. Germany On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 38. France On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 39. U.K. On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 40. Italy On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 41. Russia On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 42. Asia Pacific On-Board AC-DC Charger Sales and Growth Rate (K Units)

Figure 43. Asia Pacific On-Board AC-DC Charger Sales Market Share by Region in 2023

Figure 44. China On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 45. Japan On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 46. South Korea On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 47. India On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 48. Southeast Asia On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 49. South America On-Board AC-DC Charger Sales and Growth Rate (K Units)

Figure 50. South America On-Board AC-DC Charger Sales Market Share by Country in 2023

Figure 51. Brazil On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 52. Argentina On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 53. Columbia On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 54. Middle East and Africa On-Board AC-DC Charger Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa On-Board AC-DC Charger Sales Market Share by Region in 2023

Figure 56. Saudi Arabia On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 57. UAE On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 58. Egypt On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 59. Nigeria On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 60. South Africa On-Board AC-DC Charger Sales and Growth Rate (2019-2024) & (K Units)

Figure 61. Global On-Board AC-DC Charger Sales Forecast by Volume (2019-2030) & (K Units)

Figure 62. Global On-Board AC-DC Charger Market Size Forecast by Value (2019-2030) & (M USD)

Figure 63. Global On-Board AC-DC Charger Sales Market Share Forecast by Type (2025-2030)

Figure 64. Global On-Board AC-DC Charger Market Share Forecast by Type (2025-2030)

Figure 65. Global On-Board AC-DC Charger Sales Forecast by Application (2025-2030)

Figure 66. Global On-Board AC-DC Charger Market Share Forecast by Application (2025-2030)

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