

# Global High Voltage On-Board Charger Assembly Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global High Voltage On-Board Charger Assembly market size was valued at US\$ 6620 million in 2024 and is forecast to a readjusted size of USD 14020 million by 2031 with a CAGR of 11.4% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

High Voltage On-Board Charger Assembly is an essential component of electric and hybrid vehicles, serving as the central control unit that manages the vehicle's charging systems. Its primary role is to optimize the charging process of the vehicle's battery pack while ensuring safety, efficiency, and effective communication between various components. High Voltage On-Board Charger Assembly is composed of On-Board Charger (OBC), DC/DC Converter and PDU (Power Distribution Unit).

**Increasing EV Adoption:** The growing awareness of environmental concerns and the desire to reduce dependence on fossil fuels led to an increased demand for electric vehicles. As more consumers switched to EVs, the need for efficient, fast, and reliable high voltage on-board charger assembly grew, creating a significant market opportunity for charger manufacturers.

**High Power Charging:** There was a clear trend toward developing high-power on-board chargers to accommodate faster charging capabilities. EV manufacturers were focused on reducing charging times to improve the convenience and usability of EVs. This trend

was driven by advancements in charging infrastructure and battery technology, enabling vehicles to handle higher power inputs.

**Bidirectional Charging (V2G and V2H):** Vehicle-to-Grid (V2G) and Vehicle-to-Home (V2H) technologies were gaining traction. These systems allowed EVs to not only charge from the grid but also return energy back to the grid or power homes during outages. On-board chargers with bidirectional capabilities were becoming more important as they facilitated this two-way energy flow.

**Advancements in Charging Infrastructure:** The expansion of charging infrastructure, including Level 2 and DC fast charging stations, played a crucial role in driving the adoption of EVs. To take advantage of these charging options, EVs required compatible on-board chargers to ensure optimal charging speeds and compatibility with different charging standards.

**Technological Advancements:** Ongoing advancements in power electronics and charging technologies were leading to the development of more compact, efficient, and high-power on-board chargers. These advancements helped address concerns about charging time, range anxiety, and overall EV performance, further fueling market growth.

This report is a detailed and comprehensive analysis for global High Voltage On-Board Charger Assembly market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global High Voltage On-Board Charger Assembly market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global High Voltage On-Board Charger Assembly market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global High Voltage On-Board Charger Assembly market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global High Voltage On-Board Charger Assembly market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for High Voltage On-Board Charger Assembly
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global High Voltage On-Board Charger Assembly market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BYD, Panasonic, Tesla, VMAX, Leopold Kostal GmbH, EV-Tech, Hyundai Mobis, Shinry, Toyota Industries, Delta Electronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

High Voltage On-Board Charger Assembly market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

6-8 KW

Below 6 KW

Above 8 KW

#### Market segment by Application

BEV

PHEV

#### Major players covered

BYD

Panasonic

Tesla

VMAX

Leopold Kostal GmbH

EV-Tech

Hyundai Mobis

Shinry

Toyota Industries

Delta Electronics

Enpower

LG Magna

Tiecheng

Valeo

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe High Voltage On-Board Charger Assembly product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Voltage On-Board Charger Assembly, with price, sales quantity, revenue, and global market share of High Voltage On-Board Charger Assembly from 2020 to 2025.

Chapter 3, the High Voltage On-Board Charger Assembly competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High Voltage On-Board Charger Assembly breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and High Voltage On-Board Charger Assembly market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High Voltage On-Board Charger Assembly.

Chapter 14 and 15, to describe High Voltage On-Board Charger Assembly sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global High Voltage On-Board Charger Assembly Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 6-8 KW

1.3.3 Below 6 KW

1.3.4 Above 8 KW

1.4 Market Analysis by Application

1.4.1 Overview: Global High Voltage On-Board Charger Assembly Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 BEV

1.4.3 PHEV

1.5 Global High Voltage On-Board Charger Assembly Market Size & Forecast

1.5.1 Global High Voltage On-Board Charger Assembly Consumption Value (2020 & 2024 & 2031)

1.5.2 Global High Voltage On-Board Charger Assembly Sales Quantity (2020-2031)

1.5.3 Global High Voltage On-Board Charger Assembly Average Price (2020-2031)

### 2 MANUFACTURERS PROFILES

2.1 BYD

2.1.1 BYD Details

2.1.2 BYD Major Business

2.1.3 BYD High Voltage On-Board Charger Assembly Product and Services

2.1.4 BYD High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 BYD Recent Developments/Updates

2.2 Panasonic

2.2.1 Panasonic Details

2.2.2 Panasonic Major Business

2.2.3 Panasonic High Voltage On-Board Charger Assembly Product and Services

2.2.4 Panasonic High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Panasonic Recent Developments/Updates

## 2.3 Tesla

### 2.3.1 Tesla Details

### 2.3.2 Tesla Major Business

### 2.3.3 Tesla High Voltage On-Board Charger Assembly Product and Services

### 2.3.4 Tesla High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.3.5 Tesla Recent Developments/Updates

## 2.4 VMAX

### 2.4.1 VMAX Details

### 2.4.2 VMAX Major Business

### 2.4.3 VMAX High Voltage On-Board Charger Assembly Product and Services

### 2.4.4 VMAX High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.4.5 VMAX Recent Developments/Updates

## 2.5 Leopold Kostal GmbH

### 2.5.1 Leopold Kostal GmbH Details

### 2.5.2 Leopold Kostal GmbH Major Business

### 2.5.3 Leopold Kostal GmbH High Voltage On-Board Charger Assembly Product and Services

### 2.5.4 Leopold Kostal GmbH High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.5.5 Leopold Kostal GmbH Recent Developments/Updates

## 2.6 EV-Tech

### 2.6.1 EV-Tech Details

### 2.6.2 EV-Tech Major Business

### 2.6.3 EV-Tech High Voltage On-Board Charger Assembly Product and Services

### 2.6.4 EV-Tech High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.6.5 EV-Tech Recent Developments/Updates

## 2.7 Hyundai Mobis

### 2.7.1 Hyundai Mobis Details

### 2.7.2 Hyundai Mobis Major Business

### 2.7.3 Hyundai Mobis High Voltage On-Board Charger Assembly Product and Services

### 2.7.4 Hyundai Mobis High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.7.5 Hyundai Mobis Recent Developments/Updates

## 2.8 Shinry

### 2.8.1 Shinry Details

### 2.8.2 Shinry Major Business

- 2.8.3 Shinry High Voltage On-Board Charger Assembly Product and Services
- 2.8.4 Shinry High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Shinry Recent Developments/Updates
- 2.9 Toyota Industries
  - 2.9.1 Toyota Industries Details
  - 2.9.2 Toyota Industries Major Business
  - 2.9.3 Toyota Industries High Voltage On-Board Charger Assembly Product and Services
  - 2.9.4 Toyota Industries High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.9.5 Toyota Industries Recent Developments/Updates
- 2.10 Delta Electronics
  - 2.10.1 Delta Electronics Details
  - 2.10.2 Delta Electronics Major Business
  - 2.10.3 Delta Electronics High Voltage On-Board Charger Assembly Product and Services
  - 2.10.4 Delta Electronics High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.10.5 Delta Electronics Recent Developments/Updates
- 2.11 Enpower
  - 2.11.1 Enpower Details
  - 2.11.2 Enpower Major Business
  - 2.11.3 Enpower High Voltage On-Board Charger Assembly Product and Services
  - 2.11.4 Enpower High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.11.5 Enpower Recent Developments/Updates
- 2.12 LG Magna
  - 2.12.1 LG Magna Details
  - 2.12.2 LG Magna Major Business
  - 2.12.3 LG Magna High Voltage On-Board Charger Assembly Product and Services
  - 2.12.4 LG Magna High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.12.5 LG Magna Recent Developments/Updates
- 2.13 Tiecheng
  - 2.13.1 Tiecheng Details
  - 2.13.2 Tiecheng Major Business
  - 2.13.3 Tiecheng High Voltage On-Board Charger Assembly Product and Services
  - 2.13.4 Tiecheng High Voltage On-Board Charger Assembly Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2020-2025)

2.13.5 Tiecheng Recent Developments/Updates

2.14 Valeo

2.14.1 Valeo Details

2.14.2 Valeo Major Business

2.14.3 Valeo High Voltage On-Board Charger Assembly Product and Services

2.14.4 Valeo High Voltage On-Board Charger Assembly Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.14.5 Valeo Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: HIGH VOLTAGE ON-BOARD CHARGER ASSEMBLY BY MANUFACTURER**

3.1 Global High Voltage On-Board Charger Assembly Sales Quantity by Manufacturer (2020-2025)

3.2 Global High Voltage On-Board Charger Assembly Revenue by Manufacturer (2020-2025)

3.3 Global High Voltage On-Board Charger Assembly Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of High Voltage On-Board Charger Assembly by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 High Voltage On-Board Charger Assembly Manufacturer Market Share in 2024

3.4.3 Top 6 High Voltage On-Board Charger Assembly Manufacturer Market Share in 2024

3.5 High Voltage On-Board Charger Assembly Market: Overall Company Footprint Analysis

3.5.1 High Voltage On-Board Charger Assembly Market: Region Footprint

3.5.2 High Voltage On-Board Charger Assembly Market: Company Product Type Footprint

3.5.3 High Voltage On-Board Charger Assembly Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

4.1 Global High Voltage On-Board Charger Assembly Market Size by Region

4.1.1 Global High Voltage On-Board Charger Assembly Sales Quantity by Region (2020-2031)

4.1.2 Global High Voltage On-Board Charger Assembly Consumption Value by Region (2020-2031)

4.1.3 Global High Voltage On-Board Charger Assembly Average Price by Region (2020-2031)

4.2 North America High Voltage On-Board Charger Assembly Consumption Value (2020-2031)

4.3 Europe High Voltage On-Board Charger Assembly Consumption Value (2020-2031)

4.4 Asia-Pacific High Voltage On-Board Charger Assembly Consumption Value (2020-2031)

4.5 South America High Voltage On-Board Charger Assembly Consumption Value (2020-2031)

4.6 Middle East & Africa High Voltage On-Board Charger Assembly Consumption Value (2020-2031)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global High Voltage On-Board Charger Assembly Sales Quantity by Type (2020-2031)

5.2 Global High Voltage On-Board Charger Assembly Consumption Value by Type (2020-2031)

5.3 Global High Voltage On-Board Charger Assembly Average Price by Type (2020-2031)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global High Voltage On-Board Charger Assembly Sales Quantity by Application (2020-2031)

6.2 Global High Voltage On-Board Charger Assembly Consumption Value by Application (2020-2031)

6.3 Global High Voltage On-Board Charger Assembly Average Price by Application (2020-2031)

## **7 NORTH AMERICA**

7.1 North America High Voltage On-Board Charger Assembly Sales Quantity by Type (2020-2031)

7.2 North America High Voltage On-Board Charger Assembly Sales Quantity by

Application (2020-2031)

7.3 North America High Voltage On-Board Charger Assembly Market Size by Country

7.3.1 North America High Voltage On-Board Charger Assembly Sales Quantity by Country (2020-2031)

7.3.2 North America High Voltage On-Board Charger Assembly Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

## **8 EUROPE**

8.1 Europe High Voltage On-Board Charger Assembly Sales Quantity by Type (2020-2031)

8.2 Europe High Voltage On-Board Charger Assembly Sales Quantity by Application (2020-2031)

8.3 Europe High Voltage On-Board Charger Assembly Market Size by Country

8.3.1 Europe High Voltage On-Board Charger Assembly Sales Quantity by Country (2020-2031)

8.3.2 Europe High Voltage On-Board Charger Assembly Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific High Voltage On-Board Charger Assembly Market Size by Region

9.3.1 Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific High Voltage On-Board Charger Assembly Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

- 9.3.4 Japan Market Size and Forecast (2020-2031)
- 9.3.5 South Korea Market Size and Forecast (2020-2031)
- 9.3.6 India Market Size and Forecast (2020-2031)
- 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
- 9.3.8 Australia Market Size and Forecast (2020-2031)

## **10 SOUTH AMERICA**

- 10.1 South America High Voltage On-Board Charger Assembly Sales Quantity by Type (2020-2031)
- 10.2 South America High Voltage On-Board Charger Assembly Sales Quantity by Application (2020-2031)
- 10.3 South America High Voltage On-Board Charger Assembly Market Size by Country
  - 10.3.1 South America High Voltage On-Board Charger Assembly Sales Quantity by Country (2020-2031)
  - 10.3.2 South America High Voltage On-Board Charger Assembly Consumption Value by Country (2020-2031)
  - 10.3.3 Brazil Market Size and Forecast (2020-2031)
  - 10.3.4 Argentina Market Size and Forecast (2020-2031)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa High Voltage On-Board Charger Assembly Sales Quantity by Type (2020-2031)
- 11.2 Middle East & Africa High Voltage On-Board Charger Assembly Sales Quantity by Application (2020-2031)
- 11.3 Middle East & Africa High Voltage On-Board Charger Assembly Market Size by Country
  - 11.3.1 Middle East & Africa High Voltage On-Board Charger Assembly Sales Quantity by Country (2020-2031)
  - 11.3.2 Middle East & Africa High Voltage On-Board Charger Assembly Consumption Value by Country (2020-2031)
  - 11.3.3 Turkey Market Size and Forecast (2020-2031)
  - 11.3.4 Egypt Market Size and Forecast (2020-2031)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)
  - 11.3.6 South Africa Market Size and Forecast (2020-2031)

## **12 MARKET DYNAMICS**

- 12.1 High Voltage On-Board Charger Assembly Market Drivers
- 12.2 High Voltage On-Board Charger Assembly Market Restraints
- 12.3 High Voltage On-Board Charger Assembly Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of High Voltage On-Board Charger Assembly and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of High Voltage On-Board Charger Assembly
- 13.3 High Voltage On-Board Charger Assembly Production Process
- 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 High Voltage On-Board Charger Assembly Typical Distributors
- 14.3 High Voltage On-Board Charger Assembly Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global High Voltage On-Board Charger Assembly Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global High Voltage On-Board Charger Assembly Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. BYD Basic Information, Manufacturing Base and Competitors

Table 4. BYD Major Business

Table 5. BYD High Voltage On-Board Charger Assembly Product and Services

Table 6. BYD High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. BYD Recent Developments/Updates

Table 8. Panasonic Basic Information, Manufacturing Base and Competitors

Table 9. Panasonic Major Business

Table 10. Panasonic High Voltage On-Board Charger Assembly Product and Services

Table 11. Panasonic High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Panasonic Recent Developments/Updates

Table 13. Tesla Basic Information, Manufacturing Base and Competitors

Table 14. Tesla Major Business

Table 15. Tesla High Voltage On-Board Charger Assembly Product and Services

Table 16. Tesla High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Tesla Recent Developments/Updates

Table 18. VMAX Basic Information, Manufacturing Base and Competitors

Table 19. VMAX Major Business

Table 20. VMAX High Voltage On-Board Charger Assembly Product and Services

Table 21. VMAX High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. VMAX Recent Developments/Updates

Table 23. Leopold Kostal GmbH Basic Information, Manufacturing Base and Competitors

Table 24. Leopold Kostal GmbH Major Business

Table 25. Leopold Kostal GmbH High Voltage On-Board Charger Assembly Product and Services

Table 26. Leopold Kostal GmbH High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Leopold Kostal GmbH Recent Developments/Updates

Table 28. EV-Tech Basic Information, Manufacturing Base and Competitors

Table 29. EV-Tech Major Business

Table 30. EV-Tech High Voltage On-Board Charger Assembly Product and Services

Table 31. EV-Tech High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. EV-Tech Recent Developments/Updates

Table 33. Hyundai Mobis Basic Information, Manufacturing Base and Competitors

Table 34. Hyundai Mobis Major Business

Table 35. Hyundai Mobis High Voltage On-Board Charger Assembly Product and Services

Table 36. Hyundai Mobis High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Hyundai Mobis Recent Developments/Updates

Table 38. Shinry Basic Information, Manufacturing Base and Competitors

Table 39. Shinry Major Business

Table 40. Shinry High Voltage On-Board Charger Assembly Product and Services

Table 41. Shinry High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Shinry Recent Developments/Updates

Table 43. Toyota Industries Basic Information, Manufacturing Base and Competitors

Table 44. Toyota Industries Major Business

Table 45. Toyota Industries High Voltage On-Board Charger Assembly Product and Services

Table 46. Toyota Industries High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Toyota Industries Recent Developments/Updates

Table 48. Delta Electronics Basic Information, Manufacturing Base and Competitors

Table 49. Delta Electronics Major Business

Table 50. Delta Electronics High Voltage On-Board Charger Assembly Product and

## Services

Table 51. Delta Electronics High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. Delta Electronics Recent Developments/Updates

Table 53. Enpower Basic Information, Manufacturing Base and Competitors

Table 54. Enpower Major Business

Table 55. Enpower High Voltage On-Board Charger Assembly Product and Services

Table 56. Enpower High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. Enpower Recent Developments/Updates

Table 58. LG Magna Basic Information, Manufacturing Base and Competitors

Table 59. LG Magna Major Business

Table 60. LG Magna High Voltage On-Board Charger Assembly Product and Services

Table 61. LG Magna High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. LG Magna Recent Developments/Updates

Table 63. Tiecheng Basic Information, Manufacturing Base and Competitors

Table 64. Tiecheng Major Business

Table 65. Tiecheng High Voltage On-Board Charger Assembly Product and Services

Table 66. Tiecheng High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Tiecheng Recent Developments/Updates

Table 68. Valeo Basic Information, Manufacturing Base and Competitors

Table 69. Valeo Major Business

Table 70. Valeo High Voltage On-Board Charger Assembly Product and Services

Table 71. Valeo High Voltage On-Board Charger Assembly Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Valeo Recent Developments/Updates

Table 73. Global High Voltage On-Board Charger Assembly Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 74. Global High Voltage On-Board Charger Assembly Revenue by Manufacturer (2020-2025) & (USD Million)

Table 75. Global High Voltage On-Board Charger Assembly Average Price by Manufacturer (2020-2025) & (US\$/Unit)

- Table 76. Market Position of Manufacturers in High Voltage On-Board Charger Assembly, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024
- Table 77. Head Office and High Voltage On-Board Charger Assembly Production Site of Key Manufacturer
- Table 78. High Voltage On-Board Charger Assembly Market: Company Product Type Footprint
- Table 79. High Voltage On-Board Charger Assembly Market: Company Product Application Footprint
- Table 80. High Voltage On-Board Charger Assembly New Market Entrants and Barriers to Market Entry
- Table 81. High Voltage On-Board Charger Assembly Mergers, Acquisition, Agreements, and Collaborations
- Table 82. Global High Voltage On-Board Charger Assembly Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR
- Table 83. Global High Voltage On-Board Charger Assembly Sales Quantity by Region (2020-2025) & (K Units)
- Table 84. Global High Voltage On-Board Charger Assembly Sales Quantity by Region (2026-2031) & (K Units)
- Table 85. Global High Voltage On-Board Charger Assembly Consumption Value by Region (2020-2025) & (USD Million)
- Table 86. Global High Voltage On-Board Charger Assembly Consumption Value by Region (2026-2031) & (USD Million)
- Table 87. Global High Voltage On-Board Charger Assembly Average Price by Region (2020-2025) & (US\$/Unit)
- Table 88. Global High Voltage On-Board Charger Assembly Average Price by Region (2026-2031) & (US\$/Unit)
- Table 89. Global High Voltage On-Board Charger Assembly Sales Quantity by Type (2020-2025) & (K Units)
- Table 90. Global High Voltage On-Board Charger Assembly Sales Quantity by Type (2026-2031) & (K Units)
- Table 91. Global High Voltage On-Board Charger Assembly Consumption Value by Type (2020-2025) & (USD Million)
- Table 92. Global High Voltage On-Board Charger Assembly Consumption Value by Type (2026-2031) & (USD Million)
- Table 93. Global High Voltage On-Board Charger Assembly Average Price by Type (2020-2025) & (US\$/Unit)
- Table 94. Global High Voltage On-Board Charger Assembly Average Price by Type (2026-2031) & (US\$/Unit)
- Table 95. Global High Voltage On-Board Charger Assembly Sales Quantity by

Application (2020-2025) & (K Units)

Table 96. Global High Voltage On-Board Charger Assembly Sales Quantity by

Application (2026-2031) & (K Units)

Table 97. Global High Voltage On-Board Charger Assembly Consumption Value by

Application (2020-2025) & (USD Million)

Table 98. Global High Voltage On-Board Charger Assembly Consumption Value by

Application (2026-2031) & (USD Million)

Table 99. Global High Voltage On-Board Charger Assembly Average Price by

Application (2020-2025) & (US\$/Unit)

Table 100. Global High Voltage On-Board Charger Assembly Average Price by

Application (2026-2031) & (US\$/Unit)

Table 101. North America High Voltage On-Board Charger Assembly Sales Quantity by

Type (2020-2025) & (K Units)

Table 102. North America High Voltage On-Board Charger Assembly Sales Quantity by

Type (2026-2031) & (K Units)

Table 103. North America High Voltage On-Board Charger Assembly Sales Quantity by

Application (2020-2025) & (K Units)

Table 104. North America High Voltage On-Board Charger Assembly Sales Quantity by

Application (2026-2031) & (K Units)

Table 105. North America High Voltage On-Board Charger Assembly Sales Quantity by

Country (2020-2025) & (K Units)

Table 106. North America High Voltage On-Board Charger Assembly Sales Quantity by

Country (2026-2031) & (K Units)

Table 107. North America High Voltage On-Board Charger Assembly Consumption

Value by Country (2020-2025) & (USD Million)

Table 108. North America High Voltage On-Board Charger Assembly Consumption

Value by Country (2026-2031) & (USD Million)

Table 109. Europe High Voltage On-Board Charger Assembly Sales Quantity by Type

(2020-2025) & (K Units)

Table 110. Europe High Voltage On-Board Charger Assembly Sales Quantity by Type

(2026-2031) & (K Units)

Table 111. Europe High Voltage On-Board Charger Assembly Sales Quantity by

Application (2020-2025) & (K Units)

Table 112. Europe High Voltage On-Board Charger Assembly Sales Quantity by

Application (2026-2031) & (K Units)

Table 113. Europe High Voltage On-Board Charger Assembly Sales Quantity by

Country (2020-2025) & (K Units)

Table 114. Europe High Voltage On-Board Charger Assembly Sales Quantity by

Country (2026-2031) & (K Units)

Table 115. Europe High Voltage On-Board Charger Assembly Consumption Value by Country (2020-2025) & (USD Million)

Table 116. Europe High Voltage On-Board Charger Assembly Consumption Value by Country (2026-2031) & (USD Million)

Table 117. Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity by Type (2020-2025) & (K Units)

Table 118. Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity by Type (2026-2031) & (K Units)

Table 119. Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity by Application (2020-2025) & (K Units)

Table 120. Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity by Application (2026-2031) & (K Units)

Table 121. Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity by Region (2020-2025) & (K Units)

Table 122. Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity by Region (2026-2031) & (K Units)

Table 123. Asia-Pacific High Voltage On-Board Charger Assembly Consumption Value by Region (2020-2025) & (USD Million)

Table 124. Asia-Pacific High Voltage On-Board Charger Assembly Consumption Value by Region (2026-2031) & (USD Million)

Table 125. South America High Voltage On-Board Charger Assembly Sales Quantity by Type (2020-2025) & (K Units)

Table 126. South America High Voltage On-Board Charger Assembly Sales Quantity by Type (2026-2031) & (K Units)

Table 127. South America High Voltage On-Board Charger Assembly Sales Quantity by Application (2020-2025) & (K Units)

Table 128. South America High Voltage On-Board Charger Assembly Sales Quantity by Application (2026-2031) & (K Units)

Table 129. South America High Voltage On-Board Charger Assembly Sales Quantity by Country (2020-2025) & (K Units)

Table 130. South America High Voltage On-Board Charger Assembly Sales Quantity by Country (2026-2031) & (K Units)

Table 131. South America High Voltage On-Board Charger Assembly Consumption Value by Country (2020-2025) & (USD Million)

Table 132. South America High Voltage On-Board Charger Assembly Consumption Value by Country (2026-2031) & (USD Million)

Table 133. Middle East & Africa High Voltage On-Board Charger Assembly Sales Quantity by Type (2020-2025) & (K Units)

Table 134. Middle East & Africa High Voltage On-Board Charger Assembly Sales

Quantity by Type (2026-2031) & (K Units)

Table 135. Middle East & Africa High Voltage On-Board Charger Assembly Sales

Quantity by Application (2020-2025) & (K Units)

Table 136. Middle East & Africa High Voltage On-Board Charger Assembly Sales

Quantity by Application (2026-2031) & (K Units)

Table 137. Middle East & Africa High Voltage On-Board Charger Assembly Sales

Quantity by Country (2020-2025) & (K Units)

Table 138. Middle East & Africa High Voltage On-Board Charger Assembly Sales

Quantity by Country (2026-2031) & (K Units)

Table 139. Middle East & Africa High Voltage On-Board Charger Assembly

Consumption Value by Country (2020-2025) & (USD Million)

Table 140. Middle East & Africa High Voltage On-Board Charger Assembly

Consumption Value by Country (2026-2031) & (USD Million)

Table 141. High Voltage On-Board Charger Assembly Raw Material

Table 142. Key Manufacturers of High Voltage On-Board Charger Assembly Raw  
Materials

Table 143. High Voltage On-Board Charger Assembly Typical Distributors

Table 144. High Voltage On-Board Charger Assembly Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. High Voltage On-Board Charger Assembly Picture

Figure 2. Global High Voltage On-Board Charger Assembly Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global High Voltage On-Board Charger Assembly Revenue Market Share by Type in 2024

Figure 4. 6-8 KW Examples

Figure 5. Below 6 KW Examples

Figure 6. Above 8 KW Examples

Figure 7. Global High Voltage On-Board Charger Assembly Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 8. Global High Voltage On-Board Charger Assembly Revenue Market Share by Application in 2024

Figure 9. BEV Examples

Figure 10. PHEV Examples

Figure 11. Global High Voltage On-Board Charger Assembly Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 12. Global High Voltage On-Board Charger Assembly Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 13. Global High Voltage On-Board Charger Assembly Sales Quantity (2020-2031) & (K Units)

Figure 14. Global High Voltage On-Board Charger Assembly Price (2020-2031) & (US\$/Unit)

Figure 15. Global High Voltage On-Board Charger Assembly Sales Quantity Market Share by Manufacturer in 2024

Figure 16. Global High Voltage On-Board Charger Assembly Revenue Market Share by Manufacturer in 2024

Figure 17. Producer Shipments of High Voltage On-Board Charger Assembly by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 18. Top 3 High Voltage On-Board Charger Assembly Manufacturer (Revenue) Market Share in 2024

Figure 19. Top 6 High Voltage On-Board Charger Assembly Manufacturer (Revenue) Market Share in 2024

Figure 20. Global High Voltage On-Board Charger Assembly Sales Quantity Market Share by Region (2020-2031)

Figure 21. Global High Voltage On-Board Charger Assembly Consumption Value

Market Share by Region (2020-2031)

Figure 22. North America High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 23. Europe High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 24. Asia-Pacific High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 25. South America High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 26. Middle East & Africa High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 27. Global High Voltage On-Board Charger Assembly Sales Quantity Market Share by Type (2020-2031)

Figure 28. Global High Voltage On-Board Charger Assembly Consumption Value Market Share by Type (2020-2031)

Figure 29. Global High Voltage On-Board Charger Assembly Average Price by Type (2020-2031) & (US\$/Unit)

Figure 30. Global High Voltage On-Board Charger Assembly Sales Quantity Market Share by Application (2020-2031)

Figure 31. Global High Voltage On-Board Charger Assembly Revenue Market Share by Application (2020-2031)

Figure 32. Global High Voltage On-Board Charger Assembly Average Price by Application (2020-2031) & (US\$/Unit)

Figure 33. North America High Voltage On-Board Charger Assembly Sales Quantity Market Share by Type (2020-2031)

Figure 34. North America High Voltage On-Board Charger Assembly Sales Quantity Market Share by Application (2020-2031)

Figure 35. North America High Voltage On-Board Charger Assembly Sales Quantity Market Share by Country (2020-2031)

Figure 36. North America High Voltage On-Board Charger Assembly Consumption Value Market Share by Country (2020-2031)

Figure 37. United States High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 38. Canada High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 39. Mexico High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 40. Europe High Voltage On-Board Charger Assembly Sales Quantity Market Share by Type (2020-2031)

Figure 41. Europe High Voltage On-Board Charger Assembly Sales Quantity Market Share by Application (2020-2031)

Figure 42. Europe High Voltage On-Board Charger Assembly Sales Quantity Market Share by Country (2020-2031)

Figure 43. Europe High Voltage On-Board Charger Assembly Consumption Value Market Share by Country (2020-2031)

Figure 44. Germany High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 45. France High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 46. United Kingdom High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 47. Russia High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 48. Italy High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 49. Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity Market Share by Type (2020-2031)

Figure 50. Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity Market Share by Application (2020-2031)

Figure 51. Asia-Pacific High Voltage On-Board Charger Assembly Sales Quantity Market Share by Region (2020-2031)

Figure 52. Asia-Pacific High Voltage On-Board Charger Assembly Consumption Value Market Share by Region (2020-2031)

Figure 53. China High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 54. Japan High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 55. South Korea High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 56. India High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 57. Southeast Asia High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 58. Australia High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 59. South America High Voltage On-Board Charger Assembly Sales Quantity Market Share by Type (2020-2031)

Figure 60. South America High Voltage On-Board Charger Assembly Sales Quantity

Market Share by Application (2020-2031)

Figure 61. South America High Voltage On-Board Charger Assembly Sales Quantity

Market Share by Country (2020-2031)

Figure 62. South America High Voltage On-Board Charger Assembly Consumption

Value Market Share by Country (2020-2031)

Figure 63. Brazil High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 64. Argentina High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 65. Middle East & Africa High Voltage On-Board Charger Assembly Sales Quantity Market Share by Type (2020-2031)

Figure 66. Middle East & Africa High Voltage On-Board Charger Assembly Sales Quantity Market Share by Application (2020-2031)

Figure 67. Middle East & Africa High Voltage On-Board Charger Assembly Sales Quantity Market Share by Country (2020-2031)

Figure 68. Middle East & Africa High Voltage On-Board Charger Assembly Consumption Value Market Share by Country (2020-2031)

Figure 69. Turkey High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 70. Egypt High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 71. Saudi Arabia High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 72. South Africa High Voltage On-Board Charger Assembly Consumption Value (2020-2031) & (USD Million)

Figure 73. High Voltage On-Board Charger Assembly Market Drivers

Figure 74. High Voltage On-Board Charger Assembly Market Restraints

Figure 75. High Voltage On-Board Charger Assembly Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of High Voltage On-Board Charger Assembly in 2024

Figure 78. Manufacturing Process Analysis of High Voltage On-Board Charger Assembly

Figure 79. High Voltage On-Board Charger Assembly Industrial Chain

Figure 80. Sales Channel: Direct to End-User vs Distributors

Figure 81. Direct Channel Pros & Cons

Figure 82. Indirect Channel Pros & Cons

Figure 83. Methodology

Figure 84. Research Process and Data Source

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