

Global On Board EV Charger Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global On Board EV Charger market size is expected to reach \$ 12805 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

An on-board EV charger is a power electronic device installed inside an electric vehicle that converts external AC power into DC power suitable for charging the vehicle's traction battery. It manages and controls the charging process and is a key component of the electric vehicle charging system. The charger enables vehicles to be charged through AC charging stations or household power supplies while coordinating with the vehicle's battery management system (BMS) to ensure safe and efficient charging.

In 2025, the global production of on-board EV chargers was 20.53 million units, with an average price of US\$360 per unit.

Upstream includes suppliers of power semiconductor devices (such as IGBTs and SiC MOSFETs), power management and control IC manufacturers, magnetic component suppliers (inductors and transformers), capacitor manufacturers, thermal management material providers, and PCB or electronics manufacturing service companies. Power semiconductors and magnetic components account for a significant portion of total cost, followed by control chips and cooling systems. Wide-bandgap semiconductors are increasingly important for high power density designs.

Downstream applications primarily include battery electric vehicles and plug-in hybrid electric vehicles used in residential AC charging stations, public AC charging infrastructure and commercial parking charging environments. Charger performance directly affects charging efficiency, charging time and overall energy conversion efficiency. As the electric vehicle market expands rapidly, automakers are demanding

higher power, higher efficiency and more compact charging systems.

Industry trends focus on high power density design, adoption of wide-bandgap semiconductors such as SiC, bidirectional charging technologies supporting vehicle-to-grid and vehicle-to-home functions, high-efficiency circuit topologies and highly integrated module designs. With the transition toward 800-volt vehicle platforms, higher power ratings and efficiency requirements for onboard chargers are increasing. Integration of onboard chargers with DC/DC converters is also becoming an important design direction.

Gross margins typically range from 20% to 35%. Standard passenger vehicle products generally achieve margins of approximately 20%?28%, while high-end chargers using SiC devices or supporting bidirectional charging can reach 28%?35%. Key industry barriers include power electronics design capability, thermal management technology and automotive-grade reliability certification. Overall market growth is strongly linked to the expansion of global electric vehicle sales.

This report studies the global On Board EV Charger production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for On Board EV Charger and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of On Board EV Charger that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global On Board EV Charger total production and demand, 2021-2032, (Units)

Global On Board EV Charger total production value, 2021-2032, (USD Million)

Global On Board EV Charger production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global On Board EV Charger consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: On Board EV Charger domestic production, consumption, key domestic manufacturers and share

Global On Board EV Charger production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global On Board EV Charger production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global On Board EV Charger production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global On Board EV Charger market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bosch, Hyundai Mobis, ZF, Valeo, BorgWarner, Schaeffler, FORVIA HELLA, Joyson, Delta Electronics, Huawei, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World On Board EV Charger market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global On Board EV Charger Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global On Board EV Charger Market, Segmentation by Type:

Below 3.3 kW

3.3-11 kW

Above 11 kW

Global On Board EV Charger Market, Segmentation by Topology Structure:

Single-Stage

Two-Stage

Global On Board EV Charger Market, Segmentation by Charging Function:

Unidirectional Charging Type

Bidirectional Charging Type (V2G)

Global On Board EV Charger Market, Segmentation by Application:

Pure Electric Vehicles

Plug-in Hybrid Electric Vehicles

Companies Profiled:

Bosch

Hyundai Mobis

ZF

Valeo

BorgWarner

Schaeffler

FORVIA HELLA

Joyson

Delta Electronics

Huawei

Inovance Automotive

VMAX

Shinry

FUTEC

Enpower

Key Questions Answered:

1. How big is the global On Board EV Charger market?
2. What is the demand of the global On Board EV Charger market?
3. What is the year over year growth of the global On Board EV Charger market?
4. What is the production and production value of the global On Board EV Charger market?
5. Who are the key producers in the global On Board EV Charger market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 On Board EV Charger Introduction
- 1.2 World On Board EV Charger Supply & Forecast
 - 1.2.1 World On Board EV Charger Production Value (2021 & 2025 & 2032)
 - 1.2.2 World On Board EV Charger Production (2021-2032)
 - 1.2.3 World On Board EV Charger Pricing Trends (2021-2032)
- 1.3 World On Board EV Charger Production by Region (Based on Production Site)
 - 1.3.1 World On Board EV Charger Production Value by Region (2021-2032)
 - 1.3.2 World On Board EV Charger Production by Region (2021-2032)
 - 1.3.3 World On Board EV Charger Average Price by Region (2021-2032)
 - 1.3.4 North America On Board EV Charger Production (2021-2032)
 - 1.3.5 Europe On Board EV Charger Production (2021-2032)
 - 1.3.6 China On Board EV Charger Production (2021-2032)
 - 1.3.7 Japan On Board EV Charger Production (2021-2032)
 - 1.3.8 South Korea On Board EV Charger Production (2021-2032)
 - 1.3.9 India On Board EV Charger Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 On Board EV Charger Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 On Board EV Charger Major Market Trends

2 DEMAND SUMMARY

- 2.1 World On Board EV Charger Demand (2021-2032)
- 2.2 World On Board EV Charger Consumption by Region
 - 2.2.1 World On Board EV Charger Consumption by Region (2021-2026)
 - 2.2.2 World On Board EV Charger Consumption Forecast by Region (2027-2032)
- 2.3 United States On Board EV Charger Consumption (2021-2032)
- 2.4 China On Board EV Charger Consumption (2021-2032)
- 2.5 Europe On Board EV Charger Consumption (2021-2032)
- 2.6 Japan On Board EV Charger Consumption (2021-2032)
- 2.7 South Korea On Board EV Charger Consumption (2021-2032)
- 2.8 ASEAN On Board EV Charger Consumption (2021-2032)
- 2.9 India On Board EV Charger Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World On Board EV Charger Production Value by Manufacturer (2021-2026)
- 3.2 World On Board EV Charger Production by Manufacturer (2021-2026)
- 3.3 World On Board EV Charger Average Price by Manufacturer (2021-2026)
- 3.4 On Board EV Charger Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global On Board EV Charger Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for On Board EV Charger in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for On Board EV Charger in 2025
- 3.6 On Board EV Charger Market: Overall Company Footprint Analysis
 - 3.6.1 On Board EV Charger Market: Region Footprint
 - 3.6.2 On Board EV Charger Market: Company Product Type Footprint
 - 3.6.3 On Board EV Charger Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: On Board EV Charger Production Value Comparison
 - 4.1.1 United States VS China: On Board EV Charger Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: On Board EV Charger Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: On Board EV Charger Production Comparison
 - 4.2.1 United States VS China: On Board EV Charger Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: On Board EV Charger Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: On Board EV Charger Consumption Comparison
 - 4.3.1 United States VS China: On Board EV Charger Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: On Board EV Charger Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based On Board EV Charger Manufacturers and Market Share, 2021-2026

4.4.1 United States Based On Board EV Charger Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers On Board EV Charger Production Value (2021-2026)

4.4.3 United States Based Manufacturers On Board EV Charger Production (2021-2026)

4.5 China Based On Board EV Charger Manufacturers and Market Share

4.5.1 China Based On Board EV Charger Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers On Board EV Charger Production Value (2021-2026)

4.5.3 China Based Manufacturers On Board EV Charger Production (2021-2026)

4.6 Rest of World Based On Board EV Charger Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based On Board EV Charger Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers On Board EV Charger Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers On Board EV Charger Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World On Board EV Charger Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Below 3.3 kW

5.2.2 3.3-11 kW

5.2.3 Above 11 kW

5.3 Market Segment by Type

5.3.1 World On Board EV Charger Production by Type (2021-2032)

5.3.2 World On Board EV Charger Production Value by Type (2021-2032)

5.3.3 World On Board EV Charger Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TOPOLOGY STRUCTURE

6.1 World On Board EV Charger Market Size Overview by Topology Structure: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Topology Structure

6.2.1 Single-Stage

6.2.2 Two-Stage

6.3 Market Segment by Topology Structure

6.3.1 World On Board EV Charger Production by Topology Structure (2021-2032)

6.3.2 World On Board EV Charger Production Value by Topology Structure (2021-2032)

6.3.3 World On Board EV Charger Average Price by Topology Structure (2021-2032)

7 MARKET ANALYSIS BY CHARGING FUNCTION

7.1 World On Board EV Charger Market Size Overview by Charging Function: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Charging Function

7.2.1 Unidirectional Charging Type

7.2.2 Bidirectional Charging Type (V2G)

7.3 Market Segment by Charging Function

7.3.1 World On Board EV Charger Production by Charging Function (2021-2032)

7.3.2 World On Board EV Charger Production Value by Charging Function (2021-2032)

7.3.3 World On Board EV Charger Average Price by Charging Function (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World On Board EV Charger Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Pure Electric Vehicles

8.2.2 Plug-in Hybrid Electric Vehicles

8.3 Market Segment by Application

8.3.1 World On Board EV Charger Production by Application (2021-2032)

8.3.2 World On Board EV Charger Production Value by Application (2021-2032)

8.3.3 World On Board EV Charger Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Bosch

9.1.1 Bosch Details

9.1.2 Bosch Major Business

9.1.3 Bosch On Board EV Charger Product and Services

9.1.4 Bosch On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Bosch Recent Developments/Updates

9.1.6 Bosch Competitive Strengths & Weaknesses

9.2 Hyundai Mobis

9.2.1 Hyundai Mobis Details

9.2.2 Hyundai Mobis Major Business

9.2.3 Hyundai Mobis On Board EV Charger Product and Services

9.2.4 Hyundai Mobis On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Hyundai Mobis Recent Developments/Updates

9.2.6 Hyundai Mobis Competitive Strengths & Weaknesses

9.3 ZF

9.3.1 ZF Details

9.3.2 ZF Major Business

9.3.3 ZF On Board EV Charger Product and Services

9.3.4 ZF On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 ZF Recent Developments/Updates

9.3.6 ZF Competitive Strengths & Weaknesses

9.4 Valeo

9.4.1 Valeo Details

9.4.2 Valeo Major Business

9.4.3 Valeo On Board EV Charger Product and Services

9.4.4 Valeo On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Valeo Recent Developments/Updates

9.4.6 Valeo Competitive Strengths & Weaknesses

9.5 BorgWarner

9.5.1 BorgWarner Details

9.5.2 BorgWarner Major Business

9.5.3 BorgWarner On Board EV Charger Product and Services

9.5.4 BorgWarner On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 BorgWarner Recent Developments/Updates

9.5.6 BorgWarner Competitive Strengths & Weaknesses

9.6 Schaeffler

9.6.1 Schaeffler Details

9.6.2 Schaeffler Major Business

- 9.6.3 Schaeffler On Board EV Charger Product and Services
- 9.6.4 Schaeffler On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Schaeffler Recent Developments/Updates
- 9.6.6 Schaeffler Competitive Strengths & Weaknesses
- 9.7 FORVIA HELLA
 - 9.7.1 FORVIA HELLA Details
 - 9.7.2 FORVIA HELLA Major Business
 - 9.7.3 FORVIA HELLA On Board EV Charger Product and Services
 - 9.7.4 FORVIA HELLA On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 FORVIA HELLA Recent Developments/Updates
 - 9.7.6 FORVIA HELLA Competitive Strengths & Weaknesses
- 9.8 Joyson
 - 9.8.1 Joyson Details
 - 9.8.2 Joyson Major Business
 - 9.8.3 Joyson On Board EV Charger Product and Services
 - 9.8.4 Joyson On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Joyson Recent Developments/Updates
 - 9.8.6 Joyson Competitive Strengths & Weaknesses
- 9.9 Delta Electronics
 - 9.9.1 Delta Electronics Details
 - 9.9.2 Delta Electronics Major Business
 - 9.9.3 Delta Electronics On Board EV Charger Product and Services
 - 9.9.4 Delta Electronics On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Delta Electronics Recent Developments/Updates
 - 9.9.6 Delta Electronics Competitive Strengths & Weaknesses
- 9.10 Huawei
 - 9.10.1 Huawei Details
 - 9.10.2 Huawei Major Business
 - 9.10.3 Huawei On Board EV Charger Product and Services
 - 9.10.4 Huawei On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Huawei Recent Developments/Updates
 - 9.10.6 Huawei Competitive Strengths & Weaknesses
- 9.11 Inovance Automotive
 - 9.11.1 Inovance Automotive Details

- 9.11.2 Inovance Automotive Major Business
- 9.11.3 Inovance Automotive On Board EV Charger Product and Services
- 9.11.4 Inovance Automotive On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Inovance Automotive Recent Developments/Updates
- 9.11.6 Inovance Automotive Competitive Strengths & Weaknesses
- 9.12 VMAX
 - 9.12.1 VMAX Details
 - 9.12.2 VMAX Major Business
 - 9.12.3 VMAX On Board EV Charger Product and Services
 - 9.12.4 VMAX On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 VMAX Recent Developments/Updates
 - 9.12.6 VMAX Competitive Strengths & Weaknesses
- 9.13 Shinry
 - 9.13.1 Shinry Details
 - 9.13.2 Shinry Major Business
 - 9.13.3 Shinry On Board EV Charger Product and Services
 - 9.13.4 Shinry On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Shinry Recent Developments/Updates
 - 9.13.6 Shinry Competitive Strengths & Weaknesses
- 9.14 FUTECH
 - 9.14.1 FUTECH Details
 - 9.14.2 FUTECH Major Business
 - 9.14.3 FUTECH On Board EV Charger Product and Services
 - 9.14.4 FUTECH On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 FUTECH Recent Developments/Updates
 - 9.14.6 FUTECH Competitive Strengths & Weaknesses
- 9.15 Enpower
 - 9.15.1 Enpower Details
 - 9.15.2 Enpower Major Business
 - 9.15.3 Enpower On Board EV Charger Product and Services
 - 9.15.4 Enpower On Board EV Charger Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Enpower Recent Developments/Updates
 - 9.15.6 Enpower Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 On Board EV Charger Industry Chain
- 10.2 On Board EV Charger Upstream Analysis
 - 10.2.1 On Board EV Charger Core Raw Materials
 - 10.2.2 Main Manufacturers of On Board EV Charger Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 On Board EV Charger Production Mode
- 10.6 On Board EV Charger Procurement Model
- 10.7 On Board EV Charger Industry Sales Model and Sales Channels
 - 10.7.1 On Board EV Charger Sales Model
 - 10.7.2 On Board EV Charger Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World On Board EV Charger Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World On Board EV Charger Production Value by Region (2021-2026) & (USD Million)

Table 3. World On Board EV Charger Production Value by Region (2027-2032) & (USD Million)

Table 4. World On Board EV Charger Production Value Market Share by Region (2021-2026)

Table 5. World On Board EV Charger Production Value Market Share by Region (2027-2032)

Table 6. World On Board EV Charger Production by Region (2021-2026) & (Units)

Table 7. World On Board EV Charger Production by Region (2027-2032) & (Units)

Table 8. World On Board EV Charger Production Market Share by Region (2021-2026)

Table 9. World On Board EV Charger Production Market Share by Region (2027-2032)

Table 10. World On Board EV Charger Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World On Board EV Charger Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. On Board EV Charger Major Market Trends

Table 13. World On Board EV Charger Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World On Board EV Charger Consumption by Region (2021-2026) & (Units)

Table 15. World On Board EV Charger Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World On Board EV Charger Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key On Board EV Charger Producers in 2025

Table 18. World On Board EV Charger Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key On Board EV Charger Producers in 2025

Table 20. World On Board EV Charger Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global On Board EV Charger Company Evaluation Quadrant

Table 22. World On Board EV Charger Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and On Board EV Charger Production Site of Key Manufacturer

Table 24. On Board EV Charger Market: Company Product Type Footprint

Table 25. On Board EV Charger Market: Company Product Application Footprint

Table 26. On Board EV Charger Competitive Factors

Table 27. On Board EV Charger New Entrant and Capacity Expansion Plans

Table 28. On Board EV Charger Mergers & Acquisitions Activity

Table 29. United States VS China On Board EV Charger Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China On Board EV Charger Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China On Board EV Charger Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based On Board EV Charger Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers On Board EV Charger Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers On Board EV Charger Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers On Board EV Charger Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers On Board EV Charger Production Market Share (2021-2026)

Table 37. China Based On Board EV Charger Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers On Board EV Charger Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers On Board EV Charger Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers On Board EV Charger Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers On Board EV Charger Production Market Share (2021-2026)

Table 42. Rest of World Based On Board EV Charger Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers On Board EV Charger Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers On Board EV Charger Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers On Board EV Charger Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers On Board EV Charger Production Market Share (2021-2026)

Table 47. World On Board EV Charger Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World On Board EV Charger Production by Type (2021-2026) & (Units)

Table 49. World On Board EV Charger Production by Type (2027-2032) & (Units)

Table 50. World On Board EV Charger Production Value by Type (2021-2026) & (USD Million)

Table 51. World On Board EV Charger Production Value by Type (2027-2032) & (USD Million)

Table 52. World On Board EV Charger Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World On Board EV Charger Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World On Board EV Charger Production Value by Topology Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World On Board EV Charger Production by Topology Structure (2021-2026) & (Units)

Table 56. World On Board EV Charger Production by Topology Structure (2027-2032) & (Units)

Table 57. World On Board EV Charger Production Value by Topology Structure (2021-2026) & (USD Million)

Table 58. World On Board EV Charger Production Value by Topology Structure (2027-2032) & (USD Million)

Table 59. World On Board EV Charger Average Price by Topology Structure (2021-2026) & (US\$/Unit)

Table 60. World On Board EV Charger Average Price by Topology Structure (2027-2032) & (US\$/Unit)

Table 61. World On Board EV Charger Production Value by Charging Function, (USD Million), 2021 & 2025 & 2032

Table 62. World On Board EV Charger Production by Charging Function (2021-2026) & (Units)

Table 63. World On Board EV Charger Production by Charging Function (2027-2032) & (Units)

Table 64. World On Board EV Charger Production Value by Charging Function (2021-2026) & (USD Million)

Table 65. World On Board EV Charger Production Value by Charging Function

(2027-2032) & (USD Million)

Table 66. World On Board EV Charger Average Price by Charging Function

(2021-2026) & (US\$/Unit)

Table 67. World On Board EV Charger Average Price by Charging Function

(2027-2032) & (US\$/Unit)

Table 68. World On Board EV Charger Production Value by Application, (USD Million),
2021 & 2025 & 2032

Table 69. World On Board EV Charger Production by Application (2021-2026) & (Units)

Table 70. World On Board EV Charger Production by Application (2027-2032) & (Units)

Table 71. World On Board EV Charger Production Value by Application (2021-2026) &
(USD Million)

Table 72. World On Board EV Charger Production Value by Application (2027-2032) &
(USD Million)

Table 73. World On Board EV Charger Average Price by Application (2021-2026) &
(US\$/Unit)

Table 74. World On Board EV Charger Average Price by Application (2027-2032) &
(US\$/Unit)

Table 75. Bosch Basic Information, Manufacturing Base and Competitors

Table 76. Bosch Major Business

Table 77. Bosch On Board EV Charger Product and Services

Table 78. Bosch On Board EV Charger Production (Units), Price (US\$/Unit), Production
Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Bosch Recent Developments/Updates

Table 80. Bosch Competitive Strengths & Weaknesses

Table 81. Hyundai Mobis Basic Information, Manufacturing Base and Competitors

Table 82. Hyundai Mobis Major Business

Table 83. Hyundai Mobis On Board EV Charger Product and Services

Table 84. Hyundai Mobis On Board EV Charger Production (Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Hyundai Mobis Recent Developments/Updates

Table 86. Hyundai Mobis Competitive Strengths & Weaknesses

Table 87. ZF Basic Information, Manufacturing Base and Competitors

Table 88. ZF Major Business

Table 89. ZF On Board EV Charger Product and Services

Table 90. ZF On Board EV Charger Production (Units), Price (US\$/Unit), Production
Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. ZF Recent Developments/Updates

Table 92. ZF Competitive Strengths & Weaknesses

Table 93. Valeo Basic Information, Manufacturing Base and Competitors

- Table 94. Valeo Major Business
- Table 95. Valeo On Board EV Charger Product and Services
- Table 96. Valeo On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Valeo Recent Developments/Updates
- Table 98. Valeo Competitive Strengths & Weaknesses
- Table 99. BorgWarner Basic Information, Manufacturing Base and Competitors
- Table 100. BorgWarner Major Business
- Table 101. BorgWarner On Board EV Charger Product and Services
- Table 102. BorgWarner On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. BorgWarner Recent Developments/Updates
- Table 104. BorgWarner Competitive Strengths & Weaknesses
- Table 105. Schaeffler Basic Information, Manufacturing Base and Competitors
- Table 106. Schaeffler Major Business
- Table 107. Schaeffler On Board EV Charger Product and Services
- Table 108. Schaeffler On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Schaeffler Recent Developments/Updates
- Table 110. Schaeffler Competitive Strengths & Weaknesses
- Table 111. FORVIA HELLA Basic Information, Manufacturing Base and Competitors
- Table 112. FORVIA HELLA Major Business
- Table 113. FORVIA HELLA On Board EV Charger Product and Services
- Table 114. FORVIA HELLA On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. FORVIA HELLA Recent Developments/Updates
- Table 116. FORVIA HELLA Competitive Strengths & Weaknesses
- Table 117. Joyson Basic Information, Manufacturing Base and Competitors
- Table 118. Joyson Major Business
- Table 119. Joyson On Board EV Charger Product and Services
- Table 120. Joyson On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Joyson Recent Developments/Updates
- Table 122. Joyson Competitive Strengths & Weaknesses
- Table 123. Delta Electronics Basic Information, Manufacturing Base and Competitors
- Table 124. Delta Electronics Major Business
- Table 125. Delta Electronics On Board EV Charger Product and Services
- Table 126. Delta Electronics On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 127. Delta Electronics Recent Developments/Updates
- Table 128. Delta Electronics Competitive Strengths & Weaknesses
- Table 129. Huawei Basic Information, Manufacturing Base and Competitors
- Table 130. Huawei Major Business
- Table 131. Huawei On Board EV Charger Product and Services
- Table 132. Huawei On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Huawei Recent Developments/Updates
- Table 134. Huawei Competitive Strengths & Weaknesses
- Table 135. Inovance Automotive Basic Information, Manufacturing Base and Competitors
- Table 136. Inovance Automotive Major Business
- Table 137. Inovance Automotive On Board EV Charger Product and Services
- Table 138. Inovance Automotive On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Inovance Automotive Recent Developments/Updates
- Table 140. Inovance Automotive Competitive Strengths & Weaknesses
- Table 141. VMAX Basic Information, Manufacturing Base and Competitors
- Table 142. VMAX Major Business
- Table 143. VMAX On Board EV Charger Product and Services
- Table 144. VMAX On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. VMAX Recent Developments/Updates
- Table 146. VMAX Competitive Strengths & Weaknesses
- Table 147. Shinry Basic Information, Manufacturing Base and Competitors
- Table 148. Shinry Major Business
- Table 149. Shinry On Board EV Charger Product and Services
- Table 150. Shinry On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Shinry Recent Developments/Updates
- Table 152. Shinry Competitive Strengths & Weaknesses
- Table 153. FUTEC Basic Information, Manufacturing Base and Competitors
- Table 154. FUTEC Major Business
- Table 155. FUTEC On Board EV Charger Product and Services
- Table 156. FUTEC On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. FUTEC Recent Developments/Updates
- Table 158. FUTEC Competitive Strengths & Weaknesses

- Table 159. Enpower Basic Information, Manufacturing Base and Competitors
- Table 160. Enpower Major Business
- Table 161. Enpower On Board EV Charger Product and Services
- Table 162. Enpower On Board EV Charger Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Enpower Recent Developments/Updates
- Table 164. Enpower Competitive Strengths & Weaknesses
- Table 165. Global Key Players of On Board EV Charger Upstream (Raw Materials)
- Table 166. Global On Board EV Charger Typical Customers
- Table 167. On Board EV Charger Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. On Board EV Charger Picture

Figure 2. World On Board EV Charger Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World On Board EV Charger Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World On Board EV Charger Production (2021-2032) & (Units)

Figure 5. World On Board EV Charger Average Price (2021-2032) & (US\$/Unit)

Figure 6. World On Board EV Charger Production Value Market Share by Region (2021-2032)

Figure 7. World On Board EV Charger Production Market Share by Region (2021-2032)

Figure 8. North America On Board EV Charger Production (2021-2032) & (Units)

Figure 9. Europe On Board EV Charger Production (2021-2032) & (Units)

Figure 10. China On Board EV Charger Production (2021-2032) & (Units)

Figure 11. Japan On Board EV Charger Production (2021-2032) & (Units)

Figure 12. South Korea On Board EV Charger Production (2021-2032) & (Units)

Figure 13. India On Board EV Charger Production (2021-2032) & (Units)

Figure 14. On Board EV Charger Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World On Board EV Charger Consumption (2021-2032) & (Units)

Figure 17. World On Board EV Charger Consumption Market Share by Region (2021-2032)

Figure 18. United States On Board EV Charger Consumption (2021-2032) & (Units)

Figure 19. China On Board EV Charger Consumption (2021-2032) & (Units)

Figure 20. Europe On Board EV Charger Consumption (2021-2032) & (Units)

Figure 21. Japan On Board EV Charger Consumption (2021-2032) & (Units)

Figure 22. South Korea On Board EV Charger Consumption (2021-2032) & (Units)

Figure 23. ASEAN On Board EV Charger Consumption (2021-2032) & (Units)

Figure 24. India On Board EV Charger Consumption (2021-2032) & (Units)

Figure 25. Producer Shipments of On Board EV Charger by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for On Board EV Charger Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for On Board EV Charger Markets in 2025

Figure 28. United States VS China: On Board EV Charger Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: On Board EV Charger Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: On Board EV Charger Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers On Board EV Charger Production Market Share 2025

Figure 32. China Based Manufacturers On Board EV Charger Production Market Share 2025

Figure 33. Rest of World Based Manufacturers On Board EV Charger Production Market Share 2025

Figure 34. World On Board EV Charger Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World On Board EV Charger Production Value Market Share by Type in 2025

Figure 36. Below 3.3 kW

Figure 37. 3.3-11 kW

Figure 38. Above 11 kW

Figure 39. World On Board EV Charger Production Market Share by Type (2021-2032)

Figure 40. World On Board EV Charger Production Value Market Share by Type (2021-2032)

Figure 41. World On Board EV Charger Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World On Board EV Charger Production Value by Topology Structure, (USD Million), 2021 & 2025 & 2032

Figure 43. World On Board EV Charger Production Value Market Share by Topology Structure in 2025

Figure 44. Single-Stage

Figure 45. Two-Stage

Figure 46. World On Board EV Charger Production Market Share by Topology Structure (2021-2032)

Figure 47. World On Board EV Charger Production Value Market Share by Topology Structure (2021-2032)

Figure 48. World On Board EV Charger Average Price by Topology Structure (2021-2032) & (US\$/Unit)

Figure 49. World On Board EV Charger Production Value by Charging Function, (USD Million), 2021 & 2025 & 2032

Figure 50. World On Board EV Charger Production Value Market Share by Charging Function in 2025

Figure 51. Unidirectional Charging Type

Figure 52. Bidirectional Charging Type (V2G)

Figure 53. World On Board EV Charger Production Market Share by Charging Function (2021-2032)

Figure 54. World On Board EV Charger Production Value Market Share by Charging Function (2021-2032)

Figure 55. World On Board EV Charger Average Price by Charging Function (2021-2032) & (US\$/Unit)

Figure 56. World On Board EV Charger Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World On Board EV Charger Production Value Market Share by Application in 2025

Figure 58. Pure Electric Vehicles

Figure 59. Plug-in Hybrid Electric Vehicles

Figure 60. World On Board EV Charger Production Market Share by Application (2021-2032)

Figure 61. World On Board EV Charger Production Value Market Share by Application (2021-2032)

Figure 62. World On Board EV Charger Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. On Board EV Charger Industry Chain

Figure 64. On Board EV Charger Procurement Model

Figure 65. On Board EV Charger Sales Model

Figure 66. On Board EV Charger Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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