

# Global 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC market size was valued at US\$ 1673 million in 2024 and is forecast to a readjusted size of USD 6161 million by 2031 with a CAGR of 20.7% 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.

The 6.6kW bidirectional on-board OBC (On-Board Charger) is a charging device with a power of 6.6 kilowatts, which can realize the charging and discharging functions of electric vehicle batteries. It not only supports charging the battery from the external power grid, but also can reversely transmit the power of the on-board battery back to the power grid or power the on-board load. It has the characteristics of bidirectional energy flow, supports smart grid and Internet of Vehicles applications, and improves energy utilization efficiency.

This report is a detailed and comprehensive analysis for global 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC
- 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 6.6kW Bidirectional Vehicle OBC 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 Infineon, TI, ON Semiconductor, Wolfspeed, Sinovation, PN Junction Semiconductor, BYD, Powerland, Huawei, Shenzhen Inovance Technology, etc.

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

### **Market Segmentation**

6.6kW Bidirectional Vehicle OBC 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

Water Cooling

Air Cooling

#### Market segment by Application

Hybrid Vehicles

Pure Electric Vehicles

#### Major players covered

Infineon

TI

ON Semiconductor

Wolfspeed

Sinovation

PN Junction Semiconductor

BYD

Powerland

Huawei

Shenzhen Inovance Technology

Zhuhai Enpower Electric

Dilong Charger

Shenzhen Huntkey

Landworld

Shinry Technologies

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 6.6kW Bidirectional Vehicle OBC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 6.6kW Bidirectional Vehicle OBC, with price, sales quantity, revenue, and global market share of 6.6kW Bidirectional Vehicle OBC from 2020 to 2025.

Chapter 3, the 6.6kW Bidirectional Vehicle OBC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC.

Chapter 14 and 15, to describe 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Water Cooling

1.3.3 Air Cooling

1.4 Market Analysis by Application

1.4.1 Overview: Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Hybrid Vehicles

1.4.3 Pure Electric Vehicles

1.5 Global 6.6kW Bidirectional Vehicle OBC Market Size & Forecast

1.5.1 Global 6.6kW Bidirectional Vehicle OBC Consumption Value (2020 & 2024 & 2031)

1.5.2 Global 6.6kW Bidirectional Vehicle OBC Sales Quantity (2020-2031)

1.5.3 Global 6.6kW Bidirectional Vehicle OBC Average Price (2020-2031)

### 2 MANUFACTURERS PROFILES

2.1 Infineon

2.1.1 Infineon Details

2.1.2 Infineon Major Business

2.1.3 Infineon 6.6kW Bidirectional Vehicle OBC Product and Services

2.1.4 Infineon 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Infineon Recent Developments/Updates

2.2 TI

2.2.1 TI Details

2.2.2 TI Major Business

2.2.3 TI 6.6kW Bidirectional Vehicle OBC Product and Services

2.2.4 TI 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 TI Recent Developments/Updates

2.3 ON Semiconductor

- 2.3.1 ON Semiconductor Details
- 2.3.2 ON Semiconductor Major Business
- 2.3.3 ON Semiconductor 6.6kW Bidirectional Vehicle OBC Product and Services
- 2.3.4 ON Semiconductor 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.3.5 ON Semiconductor Recent Developments/Updates
- 2.4 Wolfspeed
  - 2.4.1 Wolfspeed Details
  - 2.4.2 Wolfspeed Major Business
  - 2.4.3 Wolfspeed 6.6kW Bidirectional Vehicle OBC Product and Services
  - 2.4.4 Wolfspeed 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.4.5 Wolfspeed Recent Developments/Updates
- 2.5 Sinovation
  - 2.5.1 Sinovation Details
  - 2.5.2 Sinovation Major Business
  - 2.5.3 Sinovation 6.6kW Bidirectional Vehicle OBC Product and Services
  - 2.5.4 Sinovation 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.5.5 Sinovation Recent Developments/Updates
- 2.6 PN Junction Semiconductor
  - 2.6.1 PN Junction Semiconductor Details
  - 2.6.2 PN Junction Semiconductor Major Business
  - 2.6.3 PN Junction Semiconductor 6.6kW Bidirectional Vehicle OBC Product and Services
  - 2.6.4 PN Junction Semiconductor 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.6.5 PN Junction Semiconductor Recent Developments/Updates
- 2.7 BYD
  - 2.7.1 BYD Details
  - 2.7.2 BYD Major Business
  - 2.7.3 BYD 6.6kW Bidirectional Vehicle OBC Product and Services
  - 2.7.4 BYD 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.7.5 BYD Recent Developments/Updates
- 2.8 Powerland
  - 2.8.1 Powerland Details
  - 2.8.2 Powerland Major Business
  - 2.8.3 Powerland 6.6kW Bidirectional Vehicle OBC Product and Services

2.8.4 Powerland 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 Powerland Recent Developments/Updates

2.9 Huawei

2.9.1 Huawei Details

2.9.2 Huawei Major Business

2.9.3 Huawei 6.6kW Bidirectional Vehicle OBC Product and Services

2.9.4 Huawei 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 Huawei Recent Developments/Updates

2.10 Shenzhen Inovance Technology

2.10.1 Shenzhen Inovance Technology Details

2.10.2 Shenzhen Inovance Technology Major Business

2.10.3 Shenzhen Inovance Technology 6.6kW Bidirectional Vehicle OBC Product and Services

2.10.4 Shenzhen Inovance Technology 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 Shenzhen Inovance Technology Recent Developments/Updates

2.11 Zhuhai Enpower Electric

2.11.1 Zhuhai Enpower Electric Details

2.11.2 Zhuhai Enpower Electric Major Business

2.11.3 Zhuhai Enpower Electric 6.6kW Bidirectional Vehicle OBC Product and Services

2.11.4 Zhuhai Enpower Electric 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.11.5 Zhuhai Enpower Electric Recent Developments/Updates

2.12 Dilong Charger

2.12.1 Dilong Charger Details

2.12.2 Dilong Charger Major Business

2.12.3 Dilong Charger 6.6kW Bidirectional Vehicle OBC Product and Services

2.12.4 Dilong Charger 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.12.5 Dilong Charger Recent Developments/Updates

2.13 Shenzhen Huntkey

2.13.1 Shenzhen Huntkey Details

2.13.2 Shenzhen Huntkey Major Business

2.13.3 Shenzhen Huntkey 6.6kW Bidirectional Vehicle OBC Product and Services

2.13.4 Shenzhen Huntkey 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

- 2.13.5 Shenzhen Huntkey Recent Developments/Updates
- 2.14 Landworld
  - 2.14.1 Landworld Details
  - 2.14.2 Landworld Major Business
  - 2.14.3 Landworld 6.6kW Bidirectional Vehicle OBC Product and Services
  - 2.14.4 Landworld 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.14.5 Landworld Recent Developments/Updates
- 2.15 Shinry Technologies
  - 2.15.1 Shinry Technologies Details
  - 2.15.2 Shinry Technologies Major Business
  - 2.15.3 Shinry Technologies 6.6kW Bidirectional Vehicle OBC Product and Services
  - 2.15.4 Shinry Technologies 6.6kW Bidirectional Vehicle OBC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.15.5 Shinry Technologies Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: 6.6KW BIDIRECTIONAL VEHICLE OBC BY MANUFACTURER**

- 3.1 Global 6.6kW Bidirectional Vehicle OBC Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global 6.6kW Bidirectional Vehicle OBC Revenue by Manufacturer (2020-2025)
- 3.3 Global 6.6kW Bidirectional Vehicle OBC Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
  - 3.4.1 Producer Shipments of 6.6kW Bidirectional Vehicle OBC by Manufacturer Revenue (\$MM) and Market Share (%): 2024
  - 3.4.2 Top 3 6.6kW Bidirectional Vehicle OBC Manufacturer Market Share in 2024
  - 3.4.3 Top 6 6.6kW Bidirectional Vehicle OBC Manufacturer Market Share in 2024
- 3.5 6.6kW Bidirectional Vehicle OBC Market: Overall Company Footprint Analysis
  - 3.5.1 6.6kW Bidirectional Vehicle OBC Market: Region Footprint
  - 3.5.2 6.6kW Bidirectional Vehicle OBC Market: Company Product Type Footprint
  - 3.5.3 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC Market Size by Region

- 4.1.1 Global 6.6kW Bidirectional Vehicle OBC Sales Quantity by Region (2020-2031)
- 4.1.2 Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Region (2020-2031)
- 4.1.3 Global 6.6kW Bidirectional Vehicle OBC Average Price by Region (2020-2031)
- 4.2 North America 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031)
- 4.3 Europe 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031)
- 4.4 Asia-Pacific 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031)
- 4.5 South America 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031)
- 4.6 Middle East & Africa 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2020-2031)
- 5.2 Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Type (2020-2031)
- 5.3 Global 6.6kW Bidirectional Vehicle OBC Average Price by Type (2020-2031)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2020-2031)
- 6.2 Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Application (2020-2031)
- 6.3 Global 6.6kW Bidirectional Vehicle OBC Average Price by Application (2020-2031)

## **7 NORTH AMERICA**

- 7.1 North America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2020-2031)
- 7.2 North America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2020-2031)
- 7.3 North America 6.6kW Bidirectional Vehicle OBC Market Size by Country
  - 7.3.1 North America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country (2020-2031)
  - 7.3.2 North America 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2020-2031)
- 8.2 Europe 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2020-2031)
- 8.3 Europe 6.6kW Bidirectional Vehicle OBC Market Size by Country
  - 8.3.1 Europe 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country (2020-2031)
  - 8.3.2 Europe 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific 6.6kW Bidirectional Vehicle OBC Market Size by Region
  - 9.3.1 Asia-Pacific 6.6kW Bidirectional Vehicle OBC Sales Quantity by Region (2020-2031)
  - 9.3.2 Asia-Pacific 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2020-2031)
- 10.2 South America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2020-2031)
- 10.3 South America 6.6kW Bidirectional Vehicle OBC Market Size by Country
  - 10.3.1 South America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country

(2020-2031)

10.3.2 South America 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa 6.6kW Bidirectional Vehicle OBC Market Size by Country

11.3.1 Middle East & Africa 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC Market Drivers

12.2 6.6kW Bidirectional Vehicle OBC Market Restraints

12.3 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC and Key Manufacturers

13.2 Manufacturing Costs Percentage of 6.6kW Bidirectional Vehicle OBC

13.3 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC Typical Distributors

### 14.3 6.6kW Bidirectional Vehicle OBC 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 6.6kW Bidirectional Vehicle OBC Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Infineon Basic Information, Manufacturing Base and Competitors

Table 4. Infineon Major Business

Table 5. Infineon 6.6kW Bidirectional Vehicle OBC Product and Services

Table 6. Infineon 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Infineon Recent Developments/Updates

Table 8. TI Basic Information, Manufacturing Base and Competitors

Table 9. TI Major Business

Table 10. TI 6.6kW Bidirectional Vehicle OBC Product and Services

Table 11. TI 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. TI Recent Developments/Updates

Table 13. ON Semiconductor Basic Information, Manufacturing Base and Competitors

Table 14. ON Semiconductor Major Business

Table 15. ON Semiconductor 6.6kW Bidirectional Vehicle OBC Product and Services

Table 16. ON Semiconductor 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. ON Semiconductor Recent Developments/Updates

Table 18. Wolfspeed Basic Information, Manufacturing Base and Competitors

Table 19. Wolfspeed Major Business

Table 20. Wolfspeed 6.6kW Bidirectional Vehicle OBC Product and Services

Table 21. Wolfspeed 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Wolfspeed Recent Developments/Updates

Table 23. Sinovation Basic Information, Manufacturing Base and Competitors

Table 24. Sinovation Major Business

Table 25. Sinovation 6.6kW Bidirectional Vehicle OBC Product and Services

Table 26. Sinovation 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2020-2025)

Table 27. Sinovation Recent Developments/Updates

Table 28. PN Junction Semiconductor Basic Information, Manufacturing Base and Competitors

Table 29. PN Junction Semiconductor Major Business

Table 30. PN Junction Semiconductor 6.6kW Bidirectional Vehicle OBC Product and Services

Table 31. PN Junction Semiconductor 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. PN Junction Semiconductor Recent Developments/Updates

Table 33. BYD Basic Information, Manufacturing Base and Competitors

Table 34. BYD Major Business

Table 35. BYD 6.6kW Bidirectional Vehicle OBC Product and Services

Table 36. BYD 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. BYD Recent Developments/Updates

Table 38. Powerland Basic Information, Manufacturing Base and Competitors

Table 39. Powerland Major Business

Table 40. Powerland 6.6kW Bidirectional Vehicle OBC Product and Services

Table 41. Powerland 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Powerland Recent Developments/Updates

Table 43. Huawei Basic Information, Manufacturing Base and Competitors

Table 44. Huawei Major Business

Table 45. Huawei 6.6kW Bidirectional Vehicle OBC Product and Services

Table 46. Huawei 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Huawei Recent Developments/Updates

Table 48. Shenzhen Inovance Technology Basic Information, Manufacturing Base and Competitors

Table 49. Shenzhen Inovance Technology Major Business

Table 50. Shenzhen Inovance Technology 6.6kW Bidirectional Vehicle OBC Product and Services

Table 51. Shenzhen Inovance Technology 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. Shenzhen Inovance Technology Recent Developments/Updates

- Table 53. Zhuhai Enpower Electric Basic Information, Manufacturing Base and Competitors
- Table 54. Zhuhai Enpower Electric Major Business
- Table 55. Zhuhai Enpower Electric 6.6kW Bidirectional Vehicle OBC Product and Services
- Table 56. Zhuhai Enpower Electric 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 57. Zhuhai Enpower Electric Recent Developments/Updates
- Table 58. Dilong Charger Basic Information, Manufacturing Base and Competitors
- Table 59. Dilong Charger Major Business
- Table 60. Dilong Charger 6.6kW Bidirectional Vehicle OBC Product and Services
- Table 61. Dilong Charger 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 62. Dilong Charger Recent Developments/Updates
- Table 63. Shenzhen Huntkey Basic Information, Manufacturing Base and Competitors
- Table 64. Shenzhen Huntkey Major Business
- Table 65. Shenzhen Huntkey 6.6kW Bidirectional Vehicle OBC Product and Services
- Table 66. Shenzhen Huntkey 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 67. Shenzhen Huntkey Recent Developments/Updates
- Table 68. Landworld Basic Information, Manufacturing Base and Competitors
- Table 69. Landworld Major Business
- Table 70. Landworld 6.6kW Bidirectional Vehicle OBC Product and Services
- Table 71. Landworld 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 72. Landworld Recent Developments/Updates
- Table 73. Shinry Technologies Basic Information, Manufacturing Base and Competitors
- Table 74. Shinry Technologies Major Business
- Table 75. Shinry Technologies 6.6kW Bidirectional Vehicle OBC Product and Services
- Table 76. Shinry Technologies 6.6kW Bidirectional Vehicle OBC Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 77. Shinry Technologies Recent Developments/Updates
- Table 78. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity by Manufacturer (2020-2025) & (K Units)

- Table 79. Global 6.6kW Bidirectional Vehicle OBC Revenue by Manufacturer (2020-2025) & (USD Million)
- Table 80. Global 6.6kW Bidirectional Vehicle OBC Average Price by Manufacturer (2020-2025) & (US\$/Unit)
- Table 81. Market Position of Manufacturers in 6.6kW Bidirectional Vehicle OBC, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024
- Table 82. Head Office and 6.6kW Bidirectional Vehicle OBC Production Site of Key Manufacturer
- Table 83. 6.6kW Bidirectional Vehicle OBC Market: Company Product Type Footprint
- Table 84. 6.6kW Bidirectional Vehicle OBC Market: Company Product Application Footprint
- Table 85. 6.6kW Bidirectional Vehicle OBC New Market Entrants and Barriers to Market Entry
- Table 86. 6.6kW Bidirectional Vehicle OBC Mergers, Acquisition, Agreements, and Collaborations
- Table 87. Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR
- Table 88. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity by Region (2020-2025) & (K Units)
- Table 89. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity by Region (2026-2031) & (K Units)
- Table 90. Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Region (2020-2025) & (USD Million)
- Table 91. Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Region (2026-2031) & (USD Million)
- Table 92. Global 6.6kW Bidirectional Vehicle OBC Average Price by Region (2020-2025) & (US\$/Unit)
- Table 93. Global 6.6kW Bidirectional Vehicle OBC Average Price by Region (2026-2031) & (US\$/Unit)
- Table 94. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2020-2025) & (K Units)
- Table 95. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2026-2031) & (K Units)
- Table 96. Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Type (2020-2025) & (USD Million)
- Table 97. Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Type (2026-2031) & (USD Million)
- Table 98. Global 6.6kW Bidirectional Vehicle OBC Average Price by Type (2020-2025) & (US\$/Unit)

Table 99. Global 6.6kW Bidirectional Vehicle OBC Average Price by Type (2026-2031) & (US\$/Unit)

Table 100. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2020-2025) & (K Units)

Table 101. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2026-2031) & (K Units)

Table 102. Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Application (2020-2025) & (USD Million)

Table 103. Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Application (2026-2031) & (USD Million)

Table 104. Global 6.6kW Bidirectional Vehicle OBC Average Price by Application (2020-2025) & (US\$/Unit)

Table 105. Global 6.6kW Bidirectional Vehicle OBC Average Price by Application (2026-2031) & (US\$/Unit)

Table 106. North America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2020-2025) & (K Units)

Table 107. North America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2026-2031) & (K Units)

Table 108. North America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2020-2025) & (K Units)

Table 109. North America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2026-2031) & (K Units)

Table 110. North America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country (2020-2025) & (K Units)

Table 111. North America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country (2026-2031) & (K Units)

Table 112. North America 6.6kW Bidirectional Vehicle OBC Consumption Value by Country (2020-2025) & (USD Million)

Table 113. North America 6.6kW Bidirectional Vehicle OBC Consumption Value by Country (2026-2031) & (USD Million)

Table 114. Europe 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2020-2025) & (K Units)

Table 115. Europe 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2026-2031) & (K Units)

Table 116. Europe 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2020-2025) & (K Units)

Table 117. Europe 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2026-2031) & (K Units)

Table 118. Europe 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country

(2020-2025) & (K Units)

Table 119. Europe 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country

(2026-2031) & (K Units)

Table 120. Europe 6.6kW Bidirectional Vehicle OBC Consumption Value by Country

(2020-2025) & (USD Million)

Table 121. Europe 6.6kW Bidirectional Vehicle OBC Consumption Value by Country

(2026-2031) & (USD Million)

Table 122. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type

(2020-2025) & (K Units)

Table 123. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type

(2026-2031) & (K Units)

Table 124. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application

(2020-2025) & (K Units)

Table 125. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application

(2026-2031) & (K Units)

Table 126. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Sales Quantity by Region

(2020-2025) & (K Units)

Table 127. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Sales Quantity by Region

(2026-2031) & (K Units)

Table 128. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Consumption Value by Region

(2020-2025) & (USD Million)

Table 129. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Consumption Value by Region

(2026-2031) & (USD Million)

Table 130. South America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type

(2020-2025) & (K Units)

Table 131. South America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type

(2026-2031) & (K Units)

Table 132. South America 6.6kW Bidirectional Vehicle OBC Sales Quantity by

Application (2020-2025) & (K Units)

Table 133. South America 6.6kW Bidirectional Vehicle OBC Sales Quantity by

Application (2026-2031) & (K Units)

Table 134. South America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country

(2020-2025) & (K Units)

Table 135. South America 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country

(2026-2031) & (K Units)

Table 136. South America 6.6kW Bidirectional Vehicle OBC Consumption Value by

Country (2020-2025) & (USD Million)

Table 137. South America 6.6kW Bidirectional Vehicle OBC Consumption Value by

Country (2026-2031) & (USD Million)

Table 138. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2020-2025) & (K Units)

Table 139. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Sales Quantity by Type (2026-2031) & (K Units)

Table 140. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2020-2025) & (K Units)

Table 141. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Sales Quantity by Application (2026-2031) & (K Units)

Table 142. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country (2020-2025) & (K Units)

Table 143. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Sales Quantity by Country (2026-2031) & (K Units)

Table 144. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Consumption Value by Country (2020-2025) & (USD Million)

Table 145. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Consumption Value by Country (2026-2031) & (USD Million)

Table 146. 6.6kW Bidirectional Vehicle OBC Raw Material

Table 147. Key Manufacturers of 6.6kW Bidirectional Vehicle OBC Raw Materials

Table 148. 6.6kW Bidirectional Vehicle OBC Typical Distributors

Table 149. 6.6kW Bidirectional Vehicle OBC Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. 6.6kW Bidirectional Vehicle OBC Picture
- Figure 2. Global 6.6kW Bidirectional Vehicle OBC Revenue by Type, (USD Million), 2020 & 2024 & 2031
- Figure 3. Global 6.6kW Bidirectional Vehicle OBC Revenue Market Share by Type in 2024
- Figure 4. Water Cooling Examples
- Figure 5. Air Cooling Examples
- Figure 6. Global 6.6kW Bidirectional Vehicle OBC Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Figure 7. Global 6.6kW Bidirectional Vehicle OBC Revenue Market Share by Application in 2024
- Figure 8. Hybrid Vehicles Examples
- Figure 9. Pure Electric Vehicles Examples
- Figure 10. Global 6.6kW Bidirectional Vehicle OBC Consumption Value, (USD Million): 2020 & 2024 & 2031
- Figure 11. Global 6.6kW Bidirectional Vehicle OBC Consumption Value and Forecast (2020-2031) & (USD Million)
- Figure 12. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity (2020-2031) & (K Units)
- Figure 13. Global 6.6kW Bidirectional Vehicle OBC Price (2020-2031) & (US\$/Unit)
- Figure 14. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Manufacturer in 2024
- Figure 15. Global 6.6kW Bidirectional Vehicle OBC Revenue Market Share by Manufacturer in 2024
- Figure 16. Producer Shipments of 6.6kW Bidirectional Vehicle OBC by Manufacturer Sales (\$MM) and Market Share (%): 2024
- Figure 17. Top 3 6.6kW Bidirectional Vehicle OBC Manufacturer (Revenue) Market Share in 2024
- Figure 18. Top 6 6.6kW Bidirectional Vehicle OBC Manufacturer (Revenue) Market Share in 2024
- Figure 19. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Region (2020-2031)
- Figure 20. Global 6.6kW Bidirectional Vehicle OBC Consumption Value Market Share by Region (2020-2031)
- Figure 21. North America 6.6kW Bidirectional Vehicle OBC Consumption Value

(2020-2031) & (USD Million)

Figure 22. Europe 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 23. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 24. South America 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 25. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 26. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Type (2020-2031)

Figure 27. Global 6.6kW Bidirectional Vehicle OBC Consumption Value Market Share by Type (2020-2031)

Figure 28. Global 6.6kW Bidirectional Vehicle OBC Average Price by Type (2020-2031) & (US\$/Unit)

Figure 29. Global 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Application (2020-2031)

Figure 30. Global 6.6kW Bidirectional Vehicle OBC Revenue Market Share by Application (2020-2031)

Figure 31. Global 6.6kW Bidirectional Vehicle OBC Average Price by Application (2020-2031) & (US\$/Unit)

Figure 32. North America 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Type (2020-2031)

Figure 33. North America 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Application (2020-2031)

Figure 34. North America 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Country (2020-2031)

Figure 35. North America 6.6kW Bidirectional Vehicle OBC Consumption Value Market Share by Country (2020-2031)

Figure 36. United States 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 37. Canada 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 38. Mexico 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 39. Europe 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Type (2020-2031)

Figure 40. Europe 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Application (2020-2031)

Figure 41. Europe 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Country (2020-2031)

Figure 42. Europe 6.6kW Bidirectional Vehicle OBC Consumption Value Market Share by Country (2020-2031)

Figure 43. Germany 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 44. France 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 45. United Kingdom 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 46. Russia 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 47. Italy 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 48. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Type (2020-2031)

Figure 49. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Application (2020-2031)

Figure 50. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Region (2020-2031)

Figure 51. Asia-Pacific 6.6kW Bidirectional Vehicle OBC Consumption Value Market Share by Region (2020-2031)

Figure 52. China 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 53. Japan 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 54. South Korea 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 55. India 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 56. Southeast Asia 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 57. Australia 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 58. South America 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Type (2020-2031)

Figure 59. South America 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Application (2020-2031)

Figure 60. South America 6.6kW Bidirectional Vehicle OBC Sales Quantity Market

Share by Country (2020-2031)

Figure 61. South America 6.6kW Bidirectional Vehicle OBC Consumption Value Market Share by Country (2020-2031)

Figure 62. Brazil 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 63. Argentina 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 64. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Type (2020-2031)

Figure 65. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Application (2020-2031)

Figure 66. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Sales Quantity Market Share by Country (2020-2031)

Figure 67. Middle East & Africa 6.6kW Bidirectional Vehicle OBC Consumption Value Market Share by Country (2020-2031)

Figure 68. Turkey 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 69. Egypt 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 70. Saudi Arabia 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 71. South Africa 6.6kW Bidirectional Vehicle OBC Consumption Value (2020-2031) & (USD Million)

Figure 72. 6.6kW Bidirectional Vehicle OBC Market Drivers

Figure 73. 6.6kW Bidirectional Vehicle OBC Market Restraints

Figure 74. 6.6kW Bidirectional Vehicle OBC Market Trends

Figure 75. Porters Five Forces Analysis

Figure 76. Manufacturing Cost Structure Analysis of 6.6kW Bidirectional Vehicle OBC in 2024

Figure 77. Manufacturing Process Analysis of 6.6kW Bidirectional Vehicle OBC

Figure 78. 6.6kW Bidirectional Vehicle OBC Industrial Chain

Figure 79. Sales Channel: Direct to End-User vs Distributors

Figure 80. Direct Channel Pros & Cons

Figure 81. Indirect Channel Pros & Cons

Figure 82. Methodology

Figure 83. Research Process and Data Source

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