

Global Bidirectional Onboard Charger 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 Bidirectional Onboard Charger market size was valued at US\$ 622 million in 2024 and is forecast to a readjusted size of USD 1009 million by 2031 with a CAGR of 7.2% 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.

A Bidirectional Onboard Charger (BOBC) is a type of onboard charging system for electric vehicles (EVs) that allows both charging and discharging of the vehicle's battery. Unlike traditional unidirectional chargers, which only enable the battery to be charged from the grid, a bidirectional charger enables the vehicle to both receive power from the electrical grid and send power back to the grid or to external loads.

This report is a detailed and comprehensive analysis for global Bidirectional Onboard Charger 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 Bidirectional Onboard Charger market size and forecasts, in consumption value

(\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Bidirectional Onboard Charger 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 Bidirectional Onboard Charger 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 Bidirectional Onboard Charger 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 Bidirectional Onboard Charger

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 Bidirectional Onboard Charger 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 Tesla, Infineon, Panasonic, Delta Electronics, BorgWarner, KOSTAL, Toyota, Nissan, Rohm, TI, etc.

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

Market Segmentation

Bidirectional Onboard Charger 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

Single-Stage Topologie

Two-Stage Topologie

Market segment by Application

Hybrid Vehicles

Pure Electric Vehicles

Major players covered

Tesla

Infineon

Panasonic

Delta Electronics

BorgWarner

KOSTAL

Toyota

Nissan

Rohm

TI

LG

BYD

Vmaxpower

Shinry TECHNOLOGIES

Zhe Jiang EV-Tech

Zhuhai Enpower Electric

Huawei

Shenzhen Inovance Technology

Dilong Charger

Ruide New Energy Technology

Ningbo Joyson Electronic

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 Bidirectional Onboard Charger product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bidirectional Onboard Charger, with price, sales quantity, revenue, and global market share of Bidirectional Onboard Charger from 2020 to 2025.

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

Chapter 4, the Bidirectional Onboard Charger 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 Bidirectional Onboard Charger 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 Bidirectional Onboard Charger.

Chapter 14 and 15, to describe Bidirectional Onboard Charger sales channel, distributors, customers, research findings and conclusion.

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