

# Global On Board Charger (OBC) Controller Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global On Board Charger (OBC) Controller market size was valued at US\$ 113 million in 2025 and is forecast to a readjusted size of US\$ 221 million by 2032 with a CAGR of 10.1% during review period.

An on board charger controller is a core control unit used to manage the operation of an electric vehicle's on board charger. It controls AC to DC conversion, charging process management, and communication and safety functions between the vehicle and the power grid, enabling high-efficiency and high-reliability onboard charging.

In 2025, the global production of on-board charger (OBC) controllers was 22.5 million units, with an average price of US\$4.9 per unit.

On-board charger controllers are core control chips in electric vehicle charging systems, managing the conversion of AC input to DC output to enable safe and efficient charging between the grid and the traction battery. The upstream mainly includes suppliers of silicon and wide bandgap semiconductor materials, foundries and packaging and testing providers, and automotive-grade analog and power management IC design companies. Downstream applications are highly concentrated in electric passenger and commercial vehicles, and extend to plug-in hybrid vehicles and certain onboard energy storage systems, with stringent requirements for high efficiency, high power density, automotive-grade reliability, and functional safety.

The development trend moves toward higher power density, higher efficiency, co-design with wide bandgap devices, higher integration, intelligent control, and bidirectional charging capability. Driving factors include rising electric vehicle penetration, OEM

demand for reduced size and system cost, adoption of fast charging and high-voltage platforms, and gradual implementation of V2G applications. Challenges include long automotive qualification cycles, complex system-level design and thermal management, regional differences in charging standards, and high R&D costs for high-performance controllers. Gross margins are relatively high, typically ranging from 35% to 50%, with higher margins for high-voltage and bidirectional charging solutions, although margins are expected to gradually decline as the market scales and competition intensifies.

This report is a detailed and comprehensive analysis for global On Board Charger (OBC) Controller 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 On Board Charger (OBC) Controller market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global On Board Charger (OBC) Controller market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global On Board Charger (OBC) Controller market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global On Board Charger (OBC) Controller market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

### **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 On Board Charger (OBC) Controller

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 On Board Charger (OBC) Controller 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 Texas Instruments, Infineon, STMicroelectronics, NXP, Renesas, onsemi, ROHM, Toshiba, Power Integrations, etc.

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

## **Market Segmentation**

On Board Charger (OBC) Controller market is split by Type and by Application. For the period 2021-2032, 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 Phase

Three Phase

Market segment by Control Architecture

Standalone

Integrated

Embedded

Domain Control

## Market segment by Power

Below 3.3kW

3.3-6.6kW

11-22kW

Above 22kW

## Market segment by Application

Battery Electric Vehicles

Plug-In Hybrid Electric Vehicles

Commercial Electric Vehicles

Vehicle-To-Grid Systems

Others

## Major players covered

Texas Instruments

Infineon

STMicroelectronics

NXP

Renesas

onsemi

ROHM

Toshiba

Power Integrations

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 On Board Charger (OBC) Controller product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of On Board Charger (OBC) Controller, with price, sales quantity, revenue, and global market share of On Board Charger (OBC) Controller from 2021 to 2026.

Chapter 3, the On Board Charger (OBC) Controller competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the On Board Charger (OBC) Controller breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and On Board Charger (OBC) Controller market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 On Board Charger (OBC) Controller.

Chapter 14 and 15, to describe On Board Charger (OBC) Controller sales channel, distributors, customers, research findings and conclusion.

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