

Global LLC Resonant Converter Market Research Report 2026(Status and Outlook)

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Abstracts

The LLC converter is a resonant inverter with three reactive elements where the DC input voltage is turned into a square wave by a switch network arranged as either a half- or full-bridge to feed the resonant LLC tank that effectively filters out harmonics providing a sinusoidal like voltage and current waveform. This in turn feeds a transformer that provides voltage scaling and primary-secondary isolation. The converter power flow is controlled by modulating the square wave frequency with respect to the tank circuit's resonance. In an LLC resonant converter, all semiconductor switches are soft-switching, or zero-voltage switching (ZVS), at turn-on for the primary MOSFETs and zero-current switching (ZCS) at both turn-on and turn-off for the rectifiers in the secondary; resulting in low electro-magnetic emissions levels (EMI). In addition, it can enable a high degree of integration in the magnetic parts, enabling the design of converters with higher efficiency and power density. As for the type, power switches can be implemented in full-bridge or half-bridge topologies, each with its own unique output waveform. The main difference between the full-bridge and half-bridge topologies is that the full-bridge topology generates a square wave with no DC offset and an amplitude equal to the input voltage (V_{IN}). The half-bridge topology generates a square wave with an offset ($V_{IN} / 2$), so the amplitude is only half of the full-bridge wave. Relatively speaking, each topology has its own advantages and disadvantages: the full-bridge topology requires more transistors, so the implementation cost is higher. In addition, the added transistors will increase the series resistance ($R_{DS(ON)}$), thereby increasing the conduction loss; but on the other hand, the full-bridge implementation can reduce the necessary transformer turns ratio (N) by half, so the copper loss in the transformer can be minimized. The half-bridge topology is more cost-effective to implement, and it can reduce the RMS current across the capacitor by about 15%; however, this topology increases switching losses. After weighing the pros and cons, manufacturers usually use the half-bridge power switch topology in applications with power below 1kW, and

the full-bridge topology in higher power applications. In terms of the growth rate of the downstream market, the electric vehicle and server and other communication equipment markets have grown rapidly in recent years, and the penetration rate has increased rapidly; while the lighting power supply, industrial power supply and other markets have grown slowly, and because the market is relatively stable, the penetration rate of LLC Resonant Converters in these markets has grown slowly. For other downstream applications, mainly including power supplies for medical and military purposes, the expected growth rate of LLC Resonant Converters used in these markets in the next five years is relatively moderate.

The global LLC Resonant Converter market size was estimated at USD 152.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 8.40% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global LLC Resonant Converter market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global LLC Resonant Converter market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the LLC Resonant Converter market.

Global LLC Resonant Converter Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the

overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

ON Semiconductor
Wolfspeed
STMicroelectronics
Infineon
Texas Instruments
ROHM
Toshiba
EPC
Power Integrations, Inc.

Market Segmentation (by Type)

Full-bridge
Half-bridge

Market Segmentation (by Application)

Electric Vehicle Power Supply
Communication Power Supply
Lighting Power Supply
Industrial Power Supply
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the LLC Resonant Converter Market
Overview of the regional outlook of the LLC Resonant Converter Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the LLC Resonant Converter Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of LLC Resonant Converter, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the

information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of LLC Resonant Converter

1.2 Key Market Segments

1.2.1 LLC Resonant Converter Segment by Type

1.2.2 LLC Resonant Converter Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 LLC RESONANT CONVERTER MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global LLC Resonant Converter Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global LLC Resonant Converter Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 LLC RESONANT CONVERTER MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global LLC Resonant Converter Product Life Cycle

3.3 Global LLC Resonant Converter Sales by Manufacturers (2020-2025)

3.4 Global LLC Resonant Converter Revenue Market Share by Manufacturers (2020-2025)

3.5 LLC Resonant Converter Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global LLC Resonant Converter Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 LLC Resonant Converter Market Competitive Situation and Trends

3.8.1 LLC Resonant Converter Market Concentration Rate

3.8.2 Global 5 and 10 Largest LLC Resonant Converter Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 LLC RESONANT CONVERTER INDUSTRY CHAIN ANALYSIS

4.1 LLC Resonant Converter Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF LLC RESONANT CONVERTER MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global LLC Resonant Converter Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to LLC Resonant Converter Market

5.7 ESG Ratings of Leading Companies

6 LLC RESONANT CONVERTER MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global LLC Resonant Converter Sales Market Share by Type (2020-2025)

6.3 Global LLC Resonant Converter Market Size by Type (2020-2025)

6.4 Global LLC Resonant Converter Price by Type (2020-2025)

7 LLC RESONANT CONVERTER MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global LLC Resonant Converter Market Sales by Application (2020-2025)
- 7.3 Global LLC Resonant Converter Market Size (M USD) by Application (2020-2025)
- 7.4 Global LLC Resonant Converter Sales Growth Rate by Application (2020-2025)

8 LLC RESONANT CONVERTER MARKET SALES BY REGION

- 8.1 Global LLC Resonant Converter Sales by Region
 - 8.1.1 Global LLC Resonant Converter Sales by Region
 - 8.1.2 Global LLC Resonant Converter Sales Market Share by Region
- 8.2 Global LLC Resonant Converter Market Size by Region
 - 8.2.1 Global LLC Resonant Converter Market Size by Region
 - 8.2.2 Global LLC Resonant Converter Market Size by Region
- 8.3 North America
 - 8.3.1 North America LLC Resonant Converter Sales by Country
 - 8.3.2 North America LLC Resonant Converter Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe LLC Resonant Converter Sales by Country
 - 8.4.2 Europe LLC Resonant Converter Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific LLC Resonant Converter Sales by Region
 - 8.5.2 Asia Pacific LLC Resonant Converter Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America LLC Resonant Converter Sales by Country
 - 8.6.2 South America LLC Resonant Converter Market Size by Country

- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa LLC Resonant Converter Sales by Region
 - 8.7.2 Middle East and Africa LLC Resonant Converter Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 LLC RESONANT CONVERTER MARKET PRODUCTION BY REGION

- 9.1 Global Production of LLC Resonant Converter by Region(2020-2025)
- 9.2 Global LLC Resonant Converter Revenue Market Share by Region (2020-2025)
- 9.3 Global LLC Resonant Converter Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America LLC Resonant Converter Production
 - 9.4.1 North America LLC Resonant Converter Production Growth Rate (2020-2025)
 - 9.4.2 North America LLC Resonant Converter Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe LLC Resonant Converter Production
 - 9.5.1 Europe LLC Resonant Converter Production Growth Rate (2020-2025)
 - 9.5.2 Europe LLC Resonant Converter Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan LLC Resonant Converter Production (2020-2025)
 - 9.6.1 Japan LLC Resonant Converter Production Growth Rate (2020-2025)
 - 9.6.2 Japan LLC Resonant Converter Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China LLC Resonant Converter Production (2020-2025)
 - 9.7.1 China LLC Resonant Converter Production Growth Rate (2020-2025)
 - 9.7.2 China LLC Resonant Converter Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 ON Semiconductor
 - 10.1.1 ON Semiconductor Basic Information

- 10.1.2 ON Semiconductor LLC Resonant Converter Product Overview
- 10.1.3 ON Semiconductor LLC Resonant Converter Product Market Performance
- 10.1.4 ON Semiconductor Business Overview
- 10.1.5 ON Semiconductor SWOT Analysis
- 10.1.6 ON Semiconductor Recent Developments
- 10.2 Wolfspeed
 - 10.2.1 Wolfspeed Basic Information
 - 10.2.2 Wolfspeed LLC Resonant Converter Product Overview
 - 10.2.3 Wolfspeed LLC Resonant Converter Product Market Performance
 - 10.2.4 Wolfspeed Business Overview
 - 10.2.5 Wolfspeed SWOT Analysis
 - 10.2.6 Wolfspeed Recent Developments
- 10.3 STMicroelectronics
 - 10.3.1 STMicroelectronics Basic Information
 - 10.3.2 STMicroelectronics LLC Resonant Converter Product Overview
 - 10.3.3 STMicroelectronics LLC Resonant Converter Product Market Performance
 - 10.3.4 STMicroelectronics Business Overview
 - 10.3.5 STMicroelectronics SWOT Analysis
 - 10.3.6 STMicroelectronics Recent Developments
- 10.4 Infineon
 - 10.4.1 Infineon Basic Information
 - 10.4.2 Infineon LLC Resonant Converter Product Overview
 - 10.4.3 Infineon LLC Resonant Converter Product Market Performance
 - 10.4.4 Infineon Business Overview
 - 10.4.5 Infineon Recent Developments
- 10.5 Texas Instruments
 - 10.5.1 Texas Instruments Basic Information
 - 10.5.2 Texas Instruments LLC Resonant Converter Product Overview
 - 10.5.3 Texas Instruments LLC Resonant Converter Product Market Performance
 - 10.5.4 Texas Instruments Business Overview
 - 10.5.5 Texas Instruments Recent Developments
- 10.6 ROHM
 - 10.6.1 ROHM Basic Information
 - 10.6.2 ROHM LLC Resonant Converter Product Overview
 - 10.6.3 ROHM LLC Resonant Converter Product Market Performance
 - 10.6.4 ROHM Business Overview
 - 10.6.5 ROHM Recent Developments
- 10.7 Toshiba
 - 10.7.1 Toshiba Basic Information

- 10.7.2 Toshiba LLC Resonant Converter Product Overview
- 10.7.3 Toshiba LLC Resonant Converter Product Market Performance
- 10.7.4 Toshiba Business Overview
- 10.7.5 Toshiba Recent Developments
- 10.8 EPC
 - 10.8.1 EPC Basic Information
 - 10.8.2 EPC LLC Resonant Converter Product Overview
 - 10.8.3 EPC LLC Resonant Converter Product Market Performance
 - 10.8.4 EPC Business Overview
 - 10.8.5 EPC Recent Developments
- 10.9 Power Integrations, Inc.
 - 10.9.1 Power Integrations, Inc. Basic Information
 - 10.9.2 Power Integrations, Inc. LLC Resonant Converter Product Overview
 - 10.9.3 Power Integrations, Inc. LLC Resonant Converter Product Market Performance
 - 10.9.4 Power Integrations, Inc. Business Overview
 - 10.9.5 Power Integrations, Inc. Recent Developments

11 LLC RESONANT CONVERTER MARKET FORECAST BY REGION

- 11.1 Global LLC Resonant Converter Market Size Forecast
- 11.2 Global LLC Resonant Converter Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe LLC Resonant Converter Market Size Forecast by Country
 - 11.2.3 Asia Pacific LLC Resonant Converter Market Size Forecast by Region
 - 11.2.4 South America LLC Resonant Converter Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of LLC Resonant Converter by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global LLC Resonant Converter Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of LLC Resonant Converter by Type (2026-2035)
 - 12.1.2 Global LLC Resonant Converter Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of LLC Resonant Converter by Type (2026-2035)
- 12.2 Global LLC Resonant Converter Market Forecast by Application (2026-2035)
 - 12.2.1 Global LLC Resonant Converter Sales (K Units) Forecast by Application
 - 12.2.2 Global LLC Resonant Converter Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global LLC Resonant Converter Market Size by Type (M USD)
- Table 4. Global LLC Resonant Converter Market Size by Application
- Table 5. LLC Resonant Converter Market Size Comparison by Region (M USD)
- Table 6. Global LLC Resonant Converter Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global LLC Resonant Converter Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global LLC Resonant Converter Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global LLC Resonant Converter Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in LLC Resonant Converter as of 2025)
- Table 11. Global Market LLC Resonant Converter Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global LLC Resonant Converter Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. LLC Resonant Converter Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global LLC Resonant Converter Sales by Type (K Units)
- Table 27. Global LLC Resonant Converter Market Size by Type (M USD)
- Table 28. Global LLC Resonant Converter Sales (K Units) by Type (2020-2025)

- Table 29. Global LLC Resonant Converter Sales Market Share by Type (2020-2025)
- Table 30. Global LLC Resonant Converter Market Size (M USD) by Type (2020-2025)
- Table 31. Global LLC Resonant Converter Market Share by Type (2020-2025)
- Table 32. Global LLC Resonant Converter Price (USD/Unit) by Type (2020-2025)
- Table 33. Global LLC Resonant Converter Sales (K Units) by Application
- Table 34. Global LLC Resonant Converter Market Size by Application
- Table 35. Global LLC Resonant Converter Sales by Application (2020-2025) & (K Units)
- Table 36. Global LLC Resonant Converter Sales Market Share by Application (2020-2025)
- Table 37. Global LLC Resonant Converter Market Size by Application (2020-2025) & (M USD)
- Table 38. Global LLC Resonant Converter Market Share by Application (2020-2025)
- Table 39. Global LLC Resonant Converter Sales Growth Rate by Application (2020-2025)
- Table 40. Global LLC Resonant Converter Sales by Region (2020-2025) & (K Units)
- Table 41. Global LLC Resonant Converter Sales Market Share by Region (2020-2025)
- Table 42. Global LLC Resonant Converter Market Size by Region (2020-2025) & (M USD)
- Table 43. Global LLC Resonant Converter Market Size by Region (2020-2025)
- Table 44. North America LLC Resonant Converter Sales by Country (2020-2025) & (K Units)
- Table 45. North America LLC Resonant Converter Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe LLC Resonant Converter Sales by Country (2020-2025) & (K Units)
- Table 47. Europe LLC Resonant Converter Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific LLC Resonant Converter Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific LLC Resonant Converter Market Size by Region (2020-2025) & (M USD)
- Table 50. South America LLC Resonant Converter Sales by Country (2020-2025) & (K Units)
- Table 51. South America LLC Resonant Converter Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa LLC Resonant Converter Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa LLC Resonant Converter Market Size by Region (2020-2025) & (M USD)
- Table 54. Global LLC Resonant Converter Production (K Units) by Region(2020-2025)

Table 55. Global LLC Resonant Converter Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global LLC Resonant Converter Revenue Market Share by Region (2020-2025)

Table 57. Global LLC Resonant Converter Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America LLC Resonant Converter Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe LLC Resonant Converter Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan LLC Resonant Converter Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China LLC Resonant Converter Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. ON Semiconductor Basic Information

Table 63. ON Semiconductor LLC Resonant Converter Product Overview

Table 64. ON Semiconductor LLC Resonant Converter Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. ON Semiconductor Business Overview

Table 66. ON Semiconductor SWOT Analysis

Table 67. ON Semiconductor Recent Developments

Table 68. Wolfspeed Basic Information

Table 69. Wolfspeed LLC Resonant Converter Product Overview

Table 70. Wolfspeed LLC Resonant Converter Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Wolfspeed Business Overview

Table 72. Wolfspeed SWOT Analysis

Table 73. Wolfspeed Recent Developments

Table 74. STMicroelectronics Basic Information

Table 75. STMicroelectronics LLC Resonant Converter Product Overview

Table 76. STMicroelectronics LLC Resonant Converter Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. STMicroelectronics Business Overview

Table 78. STMicroelectronics SWOT Analysis

Table 79. STMicroelectronics Recent Developments

Table 80. Infineon Basic Information

Table 81. Infineon LLC Resonant Converter Product Overview

Table 82. Infineon LLC Resonant Converter Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 83. Infineon Business Overview
- Table 84. Infineon Recent Developments
- Table 85. Texas Instruments Basic Information
- Table 86. Texas Instruments LLC Resonant Converter Product Overview
- Table 87. Texas Instruments LLC Resonant Converter Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Texas Instruments Business Overview
- Table 89. Texas Instruments Recent Developments
- Table 90. ROHM Basic Information
- Table 91. ROHM LLC Resonant Converter Product Overview
- Table 92. ROHM LLC Resonant Converter Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. ROHM Business Overview
- Table 94. ROHM Recent Developments
- Table 95. Toshiba Basic Information
- Table 96. Toshiba LLC Resonant Converter Product Overview
- Table 97. Toshiba LLC Resonant Converter Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Toshiba Business Overview
- Table 99. Toshiba Recent Developments
- Table 100. EPC Basic Information
- Table 101. EPC LLC Resonant Converter Product Overview
- Table 102. EPC LLC Resonant Converter Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. EPC Business Overview
- Table 104. EPC Recent Developments
- Table 105. Power Integrations, Inc. Basic Information
- Table 106. Power Integrations, Inc. LLC Resonant Converter Product Overview
- Table 107. Power Integrations, Inc. LLC Resonant Converter Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. Power Integrations, Inc. Business Overview
- Table 109. Power Integrations, Inc. Recent Developments
- Table 110. Global LLC Resonant Converter Sales Forecast by Region (2026-2035) & (K Units)
- Table 111. Global LLC Resonant Converter Market Size Forecast by Region (2026-2035) & (M USD)
- Table 112. North America LLC Resonant Converter Sales Forecast by Country (2026-2035) & (K Units)
- Table 113. North America LLC Resonant Converter Market Size Forecast by Country

(2026-2035) & (M USD)

Table 114. Europe LLC Resonant Converter Sales Forecast by Country (2026-2035) & (K Units)

Table 115. Europe LLC Resonant Converter Market Size Forecast by Country (2026-2035) & (M USD)

Table 116. Asia Pacific LLC Resonant Converter Sales Forecast by Region (2026-2035) & (K Units)

Table 117. Asia Pacific LLC Resonant Converter Market Size Forecast by Region (2026-2035) & (M USD)

Table 118. South America LLC Resonant Converter Sales Forecast by Country (2026-2035) & (K Units)

Table 119. South America LLC Resonant Converter Market Size Forecast by Country (2026-2035) & (M USD)

Table 120. Middle East and Africa LLC Resonant Converter Sales Forecast by Country (2026-2035) & (Units)

Table 121. Middle East and Africa LLC Resonant Converter Market Size Forecast by Country (2026-2035) & (M USD)

Table 122. Global LLC Resonant Converter Sales Forecast by Type (2026-2035) & (K Units)

Table 123. Global LLC Resonant Converter Market Size Forecast by Type (2026-2035) & (M USD)

Table 124. Global LLC Resonant Converter Price Forecast by Type (2026-2035) & (USD/Unit)

Table 125. Global LLC Resonant Converter Sales (K Units) Forecast by Application (2026-2035)

Table 126. Global LLC Resonant Converter Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of LLC Resonant Converter
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global LLC Resonant Converter Market Size (M USD), 2025-2035
- Figure 5. Global LLC Resonant Converter Market Size (M USD) (2020-2035)
- Figure 6. Global LLC Resonant Converter Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. LLC Resonant Converter Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global LLC Resonant Converter Product Life Cycle
- Figure 13. LLC Resonant Converter Sales Share by Manufacturers in 2025
- Figure 14. Global LLC Resonant Converter Revenue Share by Manufacturers in 2025
- Figure 15. LLC Resonant Converter Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market LLC Resonant Converter Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by LLC Resonant Converter Revenue in 2025
- Figure 18. Industry Chain Map of LLC Resonant Converter
- Figure 19. Global LLC Resonant Converter Market PEST Analysis
- Figure 20. Global LLC Resonant Converter Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global LLC Resonant Converter Market Share by Type
- Figure 27. Sales Market Share of LLC Resonant Converter by Type (2020-2025)
- Figure 28. Sales Market Share of LLC Resonant Converter by Type in 2025
- Figure 29. Market Share of LLC Resonant Converter by Type (2020-2025)
- Figure 30. Market Share of LLC Resonant Converter by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global LLC Resonant Converter Market Share by Application

Figure 33. Global LLC Resonant Converter Sales Market Share by Application (2020-2025)

Figure 34. Global LLC Resonant Converter Sales Market Share by Application in 2025

Figure 35. Global LLC Resonant Converter Market Share by Application (2020-2025)

Figure 36. Global LLC Resonant Converter Market Share by Application in 2025

Figure 37. Global LLC Resonant Converter Sales Growth Rate by Application (2020-2025)

Figure 38. Global LLC Resonant Converter Sales Market Share by Region (2020-2025)

Figure 39. Global LLC Resonant Converter Market Size by Region (2020-2025)

Figure 40. North America LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America LLC Resonant Converter Sales Market Share by Country in 2024

Figure 43. North America LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America LLC Resonant Converter Market Size by Country in 2024

Figure 45. U.S. LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada LLC Resonant Converter Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada LLC Resonant Converter Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico LLC Resonant Converter Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico LLC Resonant Converter Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe LLC Resonant Converter Sales Market Share by Country in 2024

Figure 53. Europe LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe LLC Resonant Converter Market Size by Country in 2024

Figure 55. Germany LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific LLC Resonant Converter Sales and Growth Rate (K Units)

Figure 66. Asia Pacific LLC Resonant Converter Sales Market Share by Region in 2024

Figure 67. Asia Pacific LLC Resonant Converter Market Size by Region in 2024

Figure 68. China LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America LLC Resonant Converter Sales and Growth Rate (K Units)

Figure 79. South America LLC Resonant Converter Sales Market Share by Country in 2024

Figure 80. South America LLC Resonant Converter Market Size and Growth Rate (M USD)

Figure 81. South America LLC Resonant Converter Market Size by Country in 2024

Figure 82. Brazil LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa LLC Resonant Converter Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa LLC Resonant Converter Sales Market Share by Region in 2024

Figure 90. Middle East and Africa LLC Resonant Converter Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa LLC Resonant Converter Market Size by Region in 2024

Figure 92. Saudi Arabia LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K

Units)

Figure 99. Nigeria LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa LLC Resonant Converter Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa LLC Resonant Converter Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global LLC Resonant Converter Production Market Share by Region (2020-2025)

Figure 103. North America LLC Resonant Converter Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe LLC Resonant Converter Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan LLC Resonant Converter Production (K Units) Growth Rate (2020-2025)

Figure 106. China LLC Resonant Converter Production (K Units) Growth Rate (2020-2025)

Figure 107. Global LLC Resonant Converter Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global LLC Resonant Converter Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global LLC Resonant Converter Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global LLC Resonant Converter Market Share Forecast by Type (2026-2035)

Figure 111. Global LLC Resonant Converter Sales Forecast by Application (2026-2035)

Figure 112. Global LLC Resonant Converter Market Share Forecast by Application (2026-2035)

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