

# Global LLC Resonant Converter Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

According to our (Global Info Research) latest study, the global LLC Resonant Converter market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

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.

The Global Info Research report includes an overview of the development of the LLC Resonant Converter industry chain, the market status of Electric Vehicle Power Supply (AC-DC Converter, DC-DC Converter), Communication Power Supply (AC-DC Converter, DC-DC Converter), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of LLC Resonant Converter.

Regionally, the report analyzes the LLC Resonant Converter markets in key regions.

North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global LLC Resonant Converter market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the LLC Resonant Converter market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the LLC Resonant Converter industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., AC-DC Converter, DC-DC Converter).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the LLC Resonant Converter market.

**Regional Analysis:** The report involves examining the LLC Resonant Converter market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the LLC Resonant Converter market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to LLC Resonant Converter:

**Company Analysis:** Report covers individual LLC Resonant Converter manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards LLC Resonant Converter. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Electric Vehicle Power Supply, Communication Power Supply).

**Technology Analysis:** Report covers specific technologies relevant to LLC Resonant Converter. It assesses the current state, advancements, and potential future developments in LLC Resonant Converter areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the LLC Resonant Converter market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

LLC Resonant Converter market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

AC-DC Converter

DC-DC Converter

### Market segment by Application

Electric Vehicle Power Supply

Communication Power Supply

Industrial Power Supply

Others

Major players covered

STMicroelectronics

Texas Instruments

Infineon

ROHM

Toshiba

ON Semiconductor

Wolfspeed

Microchip Technology

NXP Semiconductors

Vishay

Shah Electronics

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 LLC Resonant Converter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of LLC Resonant Converter, with price, sales, revenue and global market share of LLC Resonant Converter from 2018 to 2023.

Chapter 3, the LLC Resonant Converter competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the LLC Resonant Converter breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and LLC Resonant Converter market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of LLC Resonant Converter.

Chapter 14 and 15, to describe LLC Resonant Converter sales channel, distributors, customers, research findings and conclusion.

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