

# Global LLC Resonant Converter Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global LLC Resonant Converter market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

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.

This report studies the global LLC Resonant Converter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for LLC Resonant Converter, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of LLC Resonant Converter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global LLC Resonant Converter total production and demand, 2018-2029, (K Units)

Global LLC Resonant Converter total production value, 2018-2029, (USD Million)

Global LLC Resonant Converter production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global LLC Resonant Converter consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: LLC Resonant Converter domestic production, consumption, key domestic manufacturers and share

Global LLC Resonant Converter production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global LLC Resonant Converter production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global LLC Resonant Converter production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global LLC Resonant Converter market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include STMicroelectronics, Texas Instruments, Infineon, ROHM, Toshiba, ON Semiconductor, Wolfspeed, Microchip Technology and NXP Semiconductors, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World LLC Resonant Converter market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

#### Global LLC Resonant Converter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global LLC Resonant Converter Market, Segmentation by Type

AC-DC Converter

DC-DC Converter

#### Global LLC Resonant Converter Market, Segmentation by Application

Electric Vehicle Power Supply

Communication Power Supply

Industrial Power Supply

Others

#### Companies Profiled:

STMicroelectronics

Texas Instruments

Infineon

ROHM

Toshiba

ON Semiconductor

Wolfspeed

Microchip Technology

NXP Semiconductors

Vishay

Shah Electronics

#### Key Questions Answered

1. How big is the global LLC Resonant Converter market?
2. What is the demand of the global LLC Resonant Converter market?
3. What is the year over year growth of the global LLC Resonant Converter market?
4. What is the production and production value of the global LLC Resonant Converter market?

5. Who are the key producers in the global LLC Resonant Converter market?

6. What are the growth factors driving the market demand?

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