

Global Point-of-Load DC-to-DC Converter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Point-of-Load DC-to-DC Converter market size is expected to reach \$ 1950 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

A point-of-load (POL) DC-DC converter is a small power conversion module used to provide a stable output voltage near the load point of a circuit board. This device converts the intermediate bus voltage in a system into the low-voltage power required by electronic components such as processors, FPGAs, ASICs, and memory chips. By placing the power module near the load, energy loss during power distribution can be reduced, and voltage stability can be improved. POL converters are widely used in servers, data centers, telecommunications equipment, industrial automation equipment, network equipment, and high-performance computing systems. Their high efficiency, fast transient response, and precise voltage regulation capabilities make them an important component for achieving stable local power supply in modern electronic systems. The upstream of the industry chain includes suppliers of power semiconductor devices, control ICs, magnetic components, capacitors, and PCBs; the midstream consists of power module manufacturers responsible for designing and assembling POL modules, integrating control chips, power stages, circuit protection, and thermal management systems; downstream users include server manufacturers, telecommunications equipment suppliers, industrial automation companies, and electronic equipment OEMs?industries that require efficient and reliable local power conversion solutions. In 2025, the global production of point-of-load DC-DC converters was approximately 71.1 million units, with an average market price of approximately US\$18 per unit. Manufacturers typically have gross margins between 25% and 42%. Global point-of-load DC-DC converter production capacity is projected to reach approximately 85 million units by 2025.

The point-of-load DC-to-DC converter market is driven by the rapid growth of data centers, cloud computing infrastructure, and advanced telecommunications systems. As modern electronic devices require multiple voltage rails and higher power efficiency, POL converters have become a critical component in distributed power architectures. The increasing performance requirements of processors, GPUs, and AI computing platforms are further boosting demand for high-efficiency power modules with fast transient response. Manufacturers are focusing on improving power density, reducing module size, and integrating digital control features to meet evolving system requirements. In addition, the adoption of wide-bandgap semiconductor technologies such as gallium nitride (GaN) is helping enhance efficiency and thermal performance. With continued expansion in cloud computing, 5G infrastructure, and high-performance electronics, the POL DC-DC converter market is expected to maintain steady growth.

This report studies the global Point-of-Load DC-to-DC Converter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Point-of-Load DC-to-DC Converter and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Point-of-Load DC-to-DC Converter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Point-of-Load DC-to-DC Converter total production and demand, 2021-2032, (K Units)

Global Point-of-Load DC-to-DC Converter total production value, 2021-2032, (USD Million)

Global Point-of-Load DC-to-DC Converter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Point-of-Load DC-to-DC Converter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Point-of-Load DC-to-DC Converter domestic production, consumption, key domestic manufacturers and share

Global Point-of-Load DC-to-DC Converter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Point-of-Load DC-to-DC Converter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Point-of-Load DC-to-DC Converter production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Point-of-Load DC-to-DC 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 Analog Devices, Texas Instruments, VPT, Advanced Energy, MORNSUN, Cosel, Avnet Abacus, Deutronic, Frontgrade, Infineon Technologies, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Point-of-Load DC-to-DC 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Point-of-Load DC-to-DC Converter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Point-of-Load DC-to-DC Converter Market, Segmentation by Type:

Discrete POL Converter

Integrated POL Module

Global Point-of-Load DC-to-DC Converter Market, Segmentation by Topology:

Buck (Step-down) POL Converter

Boost (Step-up) POL Converter

Global Point-of-Load DC-to-DC Converter Market, Segmentation by Output Configuration:

Single Output POL Converter

Dual Output POL Converter

Multi-Output POL Converter

Global Point-of-Load DC-to-DC Converter Market, Segmentation by Application:

Aerospace

Military

Industrial

Others

Companies Profiled:

Analog Devices

Texas Instruments

VPT

Advanced Energy

MORNSUN

Cosel

Avnet Abacus

Deutronic

Frontgrade

Infineon Technologies

ROHM

TDK-Lambda

RECOM

3D PLUS

CODICO

Key Questions Answered:

1. How big is the global Point-of-Load DC-to-DC Converter market?
2. What is the demand of the global Point-of-Load DC-to-DC Converter market?
3. What is the year over year growth of the global Point-of-Load DC-to-DC Converter market?
4. What is the production and production value of the global Point-of-Load DC-to-DC Converter market?
5. Who are the key producers in the global Point-of-Load DC-to-DC Converter market?

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

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