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Global Vertica Power Delivery Modules Market Growth 2026-2032

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Abstracts

The global Vertica Power Delivery Modules market size is predicted to grow from US$ 607 million in 2025 to US$ 4072 million in 2032; it is expected to grow at a CAGR of 28.8% from 2026 to 2032.

Vertical Power Delivery Modules (VPD modules) are high-power-density point-of-load DC-DC modules designed for high-current processors. They are typically mounted on the backside of the PCB directly beneath a CPU, GPU, AI accelerator, or ASIC, or integrated close to the package, so current reaches the load through a short Z-axis path that reduces power-delivery-network impedance and I^2R loss. Typical products integrate power stages, magnetics, capacitors, and selected control, sensing, and protection functions in a low-profile package, using architectures such as multiphase synchronous buck conversion, current multiplication, or integrated voltage regulation. Output voltage is commonly below or around 1 V, while individual modules range from roughly one hundred amperes to several hundred amperes and can be paralleled for processor rails requiring more than one thousand amperes. Key downstream products include AI accelerator cards, server motherboards, data center switching equipment, and HPC compute boards. Major purchasing parameters include output current, current density, module height, transient response, conversion efficiency, and thermal resistance. The blended gross margin is approximately 48%.

Rising processor power and core current are increasing copper loss, voltage drop, and transient-response pressure in conventional lateral power delivery around the processor. Vertical power delivery moves the high-current conversion stage directly beneath the load, shortening the final PDN path while freeing topside board area for HBM, high-speed I/O, and interconnects. Adoption is therefore expanding from a limited number of customized high-end platforms toward a broader range of AI accelerators,

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server processors, and high-speed networking silicon.

Product development is centered on higher current per module, lower profile, and greater integration. Dual-phase modules in the hundred-ampere class are being extended toward quad-phase and higher-current-density designs, with increasing use of integrated magnetics, embedded capacitors, digital control, TLVR, and tileable module arrays. Cold-plate compatibility, double-sided thermal paths, and fast transient performance are also becoming key design parameters. Supply is broadening from specialist power-module vendors to power-semiconductor companies and large power-system manufacturers, although processor pin mapping, board layout, and thermal structure still require substantial co-design and limit standardization.

Demand is concentrated in North American cloud and AI platform ecosystems, while Asia remains a major manufacturing base for servers, accelerator cards, and power modules, and European suppliers hold important positions in power semiconductors and advanced packaging. Customer qualification cycles, processor-platform design wins, and capacity for high-density magnetics and packaging can affect the pace of volume deployment. Lateral power delivery remains cost-competitive for lower-current platforms, but the economics of vertical delivery improve as processor current rises. Future opportunities are strongest in next-generation GPUs, custom AI ASICs, data center switch silicon, and co-packaged optics platforms, while key risks include rapid power-architecture changes, package-integrated regulation, thermal constraints, customer concentration, and intellectual-property barriers.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Vertica Power Delivery Modules Industry Forecast” looks at past sales and reviews total world Vertica Power Delivery Modules sales in 2025, providing a comprehensive analysis by region and market sector of projected Vertica Power Delivery Modules sales for 2026 through 2032. With Vertica Power Delivery Modules sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Vertica Power Delivery Modules industry.

This Insight Report provides a comprehensive analysis of the global Vertica Power Delivery Modules landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Vertica Power Delivery Modules portfolios and capabilities, market entry strategies,

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market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vertica Power Delivery Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vertica Power Delivery Modules and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vertica Power Delivery Modules.

This report presents a comprehensive overview, market shares, and growth opportunities of Vertica Power Delivery Modules market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Up to 100 A

101–200 A

201–300 A

Over 300 A

Segmentation by Phase Count:

Single-Phase

Dual-Phase

Quad-Phase

More than Four Phases

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Other Phase Configurations

Segmentation by Conversion Architecture:

Multiphase Buck Modules

Current Multiplier Modules

Integrated Voltage Regulator Modules

Other Architectures

Segmentation by Module Height:

Up to 4 mm

Over 4 to 6 mm

Over 6 mm

Segmentation by Application:

AI Accelerator Cards

Server Motherboards

Data Center Switches

HPC Compute Boards

Others

This report also splits the market by region:

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- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt

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South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Vicor

Infineon Technologies

Monolithic Power Systems

Empower Semiconductor

Flex Power Modules

Delta Electronics

Renesas Electronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Vertica Power Delivery Modules market?

What factors are driving Vertica Power Delivery Modules market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

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How do Vertica Power Delivery Modules market opportunities vary by end market size?

How does Vertica Power Delivery Modules break out by Type, by Application?

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