

Global AI Server Voltage Regulator Module (VRM) Market Growth 2026-2032

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Abstracts

The global AI Server Voltage Regulator Module (VRM) market size is predicted to grow from US\$ 2792 million in 2025 to US\$ 19075 million in 2032; it is expected to grow at a CAGR of 30.4% from 2026 to 2032.

The AI Server Voltage Regulator Module (VRM) is a high-current, multiphase power delivery subsystem that converts intermediate bus voltages (typically 12V or 48V) into tightly regulated low voltages required by CPUs, GPUs, or AI accelerators (typically 0.6V-1.8V). It ensures fast transient response, high efficiency, and low output ripple under extreme AI workload fluctuations. It typically consists of a PWM controller, power stages (DrMOS/MOSFETs), inductors, capacitors, and a multilayer PCB power network. In 2025, global AI Server Voltage Regulator Module (VRM) production reached approximately 6690.8 K Units. The upstream of the AI Server Voltage Regulator Module (VRM) industry includes power semiconductors (MOSFETs, DrMOS, GaN/SiC devices), magnetic components (inductors and ferrite cores), capacitors (polymer capacitors and MLCCs), and power management ICs (PWM controllers and digital power management ICs).

The AI Server Voltage Regulator Module (VRM) market is expanding rapidly alongside the growth of high-power AI GPU servers. Compared with conventional server power systems, AI accelerators require lower voltages, significantly higher current delivery, and ultra-fast transient response, driving strong demand for multiphase VRMs, DrMOS power stages, and high-density DC-DC modules. As GPU power consumption continues rising from H100 to B200 and future AI accelerators, VRMs are evolving from auxiliary motherboard components into critical power infrastructure for AI computing systems.

LP Information, Inc. (LPI) ' newest research report, the "AI Server Voltage Regulator Module (VRM) Industry Forecast" looks at past sales and reviews total world AI Server Voltage Regulator Module (VRM) sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Server Voltage Regulator Module (VRM) sales for 2026 through 2032. With AI Server Voltage Regulator Module (VRM) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Server Voltage Regulator Module (VRM) industry.

This Insight Report provides a comprehensive analysis of the global AI Server Voltage Regulator Module (VRM) 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 AI Server Voltage Regulator Module (VRM) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Server Voltage Regulator Module (VRM) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Server Voltage Regulator Module (VRM) 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 AI Server Voltage Regulator Module (VRM).

This report presents a comprehensive overview, market shares, and growth opportunities of AI Server Voltage Regulator Module (VRM) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Low Power VRM (5kW)

Segmentation by Phase Count:

6-8 Phase VRM

10?16 Phase VRM

20?32 Phase VRM

32+ Phase Digital VRM

Segmentation by Power Architecture:

Discrete MOSFET VRM

DrMOS-based VRM

GaN VRM

SiC VRM

Segmentation by Form Factor:

Motherboard VRM

VRM Power Module

Vertical Power Delivery Module

Power Card

Segmentation by Application:

AI Training Servers

AI Inference Servers

High Performance Computing (HPC) Servers

ASIC AI Accelerator Systems

Cloud Data Centers

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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 Corporation

Delta Electronics

Lite-On Technology

Murata Manufacturing

Flex Ltd

Shenzhen Megmeet Electrical

Hangzhou Silergy

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Server Voltage Regulator Module (VRM) market?

What factors are driving AI Server Voltage Regulator Module (VRM) market growth, globally and by region?

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

How do AI Server Voltage Regulator Module (VRM) market opportunities vary by end market size?

How does AI Server Voltage Regulator Module (VRM) break out by Type, by Application?

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