

Global AI Server Voltage Regulator Module (VRM) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Server Voltage Regulator Module (VRM) market size is expected to reach \$ 18474 million by 2032, rising at a market growth of 28.6% CAGR during the forecast period (2026-2032).

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.

This report studies the global AI Server Voltage Regulator Module (VRM) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Server Voltage Regulator Module (VRM) 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 AI Server Voltage Regulator Module (VRM) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Server Voltage Regulator Module (VRM) total production and demand, 2021-2032, (K Units)

Global AI Server Voltage Regulator Module (VRM) total production value, 2021-2032, (USD Million)

Global AI Server Voltage Regulator Module (VRM) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AI Server Voltage Regulator Module (VRM) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AI Server Voltage Regulator Module (VRM) domestic production, consumption, key domestic manufacturers and share

Global AI Server Voltage Regulator Module (VRM) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AI Server Voltage Regulator Module (VRM) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AI Server Voltage Regulator Module (VRM) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI Server Voltage Regulator Module (VRM) 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 Vicor Corporation, Delta Electronics, Lite-On Technology, Murata Manufacturing, Flex Ltd, Shenzhen Megmeet Electrical, Hangzhou Silergy, 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 AI Server Voltage Regulator Module (VRM) 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 AI Server Voltage Regulator Module (VRM) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Server Voltage Regulator Module (VRM) Market, Segmentation by Type:

Low Power VRM (5kW)

Global AI Server Voltage Regulator Module (VRM) Market, Segmentation by Phase Count:

6?8 Phase VRM

10?16 Phase VRM

20?32 Phase VRM

32+ Phase Digital VRM

Global AI Server Voltage Regulator Module (VRM) Market, Segmentation by Power Architecture:

Discrete MOSFET VRM

DrMOS-based VRM

GaN VRM

SiC VRM

Global AI Server Voltage Regulator Module (VRM) Market, Segmentation by Form Factor:

Motherboard VRM

VRM Power Module

Vertical Power Delivery Module

Power Card

Global AI Server Voltage Regulator Module (VRM) Market, Segmentation by Application:

AI Training Servers

AI Inference Servers

High Performance Computing (HPC) Servers

ASIC AI Accelerator Systems

Cloud Data Centers

Others

Companies Profiled:

Vicor Corporation

Delta Electronics

Lite-On Technology

Murata Manufacturing

Flex Ltd

Shenzhen Megmeet Electrical

Hangzhou Silergy

Key Questions Answered:

1. How big is the global AI Server Voltage Regulator Module (VRM) market?
2. What is the demand of the global AI Server Voltage Regulator Module (VRM) market?
3. What is the year over year growth of the global AI Server Voltage Regulator Module (VRM) market?
4. What is the production and production value of the global AI Server Voltage Regulator Module (VRM) market?
5. Who are the key producers in the global AI Server Voltage Regulator Module (VRM) market?
6. What are the growth factors driving the market demand?

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