

Global Power Modules Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GA274C279933EN.html>

Date: April 2026

Pages: 235

Price: US\$ 4,480.00 (Single User License)

ID: GA274C279933EN

Abstracts

The global Power Modules market size is expected to reach \$ 21749 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

A power module is a small, highly integrated power converter that can be directly soldered onto a circuit board. It converts input alternating current (AC) or direct current (DC) into a specific stable voltage required by electronic devices. It is mainly used to provide point-of-use power (POL) for core components such as microprocessors, DSPs, and FPGAs. Its advantages include small size, high integration, and high efficiency. It is widely used in communications, automotive, aerospace and other fields.

In 2025, the global production of power modules was 504 million units, with an average price of US\$22.8 per unit.

The power module industry chain consists of upstream semiconductor devices, magnetic materials, inductors, capacitors, and casing substrates, while downstream applications cover a wide range of fields including communication equipment, industrial control, new energy, medical electronics, and consumer electronics. Key upstream materials include power MOSFETs, IGBTs, magnetic cores, heat dissipation materials, and high-reliability passive devices, requiring high frequency, high efficiency, and high voltage withstand characteristics. Typical upstream companies include Infineon, ON Semiconductor, and TDK, which provide key components in power devices, magnetic materials, and high-end capacitors, forming the foundation of power module performance. Downstream demand growth is the most crucial factor, with communication base stations, optical modules, industrial automation control, new energy storage systems, and medical equipment constituting the main application areas. Representative downstream companies include Huawei, Schneider Electric, and

Tesla, which drive the continuous expansion of power module production in high-reliability power supply, energy-saving equipment, and large-scale electronic system deployments. With the expansion of data centers, upgrades in optical communications, and the accelerated construction of new energy systems, rapid growth in downstream demand has become the core driving force for the expansion of the power module industry.

The development trend of power modules is driven by the increasing power density of global electronic devices, stricter energy efficiency regulations, accelerated penetration of digitalization and automation, and the expansion of new energy and energy storage systems. High power density, miniaturization, modularity, and high energy efficiency have become the main technological trends. The accelerated application of GaN and SiC devices has brought significant performance improvements, enabling power modules to upgrade towards higher frequencies, higher efficiency, and greater compactness. Data centers are rapidly expanding their demand for high-efficiency power supplies, the Industrial Internet and robotics are increasing their reliance on stable power supplies, and new energy storage systems and photovoltaic inverters are continuously increasing the demand for modular power supplies. Key obstacles include cost pressures due to fluctuations in upstream power device prices, increased R&D investment due to higher technological barriers, supply chain stability affected by international trade and geopolitical factors, and the high concentration in the high-end market making it difficult for SMEs to break into the market. Furthermore, meeting safety certification requirements for different application scenarios requires a long timeframe, affecting the speed of new product introduction.

This report studies the global Power Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Modules 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 Power Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Power Modules total production and demand, 2021-2032, (Million Units)

Global Power Modules total production value, 2021-2032, (USD Million)

Global Power Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Power Modules consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Power Modules domestic production, consumption, key domestic manufacturers and share

Global Power Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Power Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Power Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Power Modules 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 Advanced Energy, Infineon, Texas Instruments, Vicor, Renesas, Monolithic Power Systems (MPS), Flex Power Modules, Delta Electronics, TDK, Eaton, 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 Power Modules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Power Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Modules Market, Segmentation by Type:

DC-DC Power Module

AC-DC Power Module

DC-AC Inverter Power Module

Global Power Modules Market, Segmentation by Power:

Less than 5W

5?30W

30?300W

300?2kW

More than 2kW

Global Power Modules Market, Segmentation by Isolation Methods:

Isolated

Non-Isolated

Global Power Modules Market, Segmentation by Application:

Industrial Automation

Automotive

Medical Equipment

Consumer Electronics

Data Centers and Servers

Others

Companies Profiled:

Advanced Energy

Infineon

Texas Instruments

Vicor

Renesas

Monolithic Power Systems (MPS)

Flex Power Modules

Delta Electronics

TDK

Eaton

Emerson

Analog Devices

XP Power

Murata

PULS

P-DUKE Technology

ON Semiconductor

RECOM Power

MORNSUN

MINMAX Technology

Onsemi

Shindengen Electric Manufacturing

Cosel

SynQor

Semikron Danfoss

Bothhand

Huawei

Cincon Electronics

Sichuan Shenghua Power Technology

Shanghai Bright Power Semiconductor

JoulWatt Technology

Beijing Design Technology

Beijing Relpow Technology

Guangzhou Aipu Electronic Technology

Shenzhen Haowen Electronics

Torex Semiconductor

W?rth Elektronik

MEAN WELL

Key Questions Answered:

1. How big is the global Power Modules market?
2. What is the demand of the global Power Modules market?
3. What is the year over year growth of the global Power Modules market?
4. What is the production and production value of the global Power Modules market?
5. Who are the key producers in the global Power Modules market?
6. What are the growth factors driving the market demand?

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