

Global RF Generator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global RF Generator market size is expected to reach \$ 3310 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

The RF generator (RF power supply) is a power supply with a certain power that can generate a fixed frequency sine wave voltage. Its frequency is within the RF range (about 3KHz to 300GHz). The general power is 0.3 to 15kW, and the frequency ranges are 2 MHz, 4KHz, 13.56 MHz, 27.12 MHz, 40.68MHz, 60MHz, etc. High-frequency power supply can be used to generate stable current and voltage to meet the needs of various mechanical equipment.

The RF generator is mainly composed of 5 parts: DC power supply module, oscillation circuit module, power amplifier module, RF power detection module, and RF interlocking control module.

DC power supply module: supplies power to the internal control circuit board of the power supply, including 24V, 15V and other voltages;

Oscillator circuit module: is the crystal oscillation part, generating a sine wave signal;

Power amplifier module: consists of several solid-state transistors, the main purpose is to amplify the power of high-frequency signals so that the output power meets the output requirements;

RF power detection module: mainly detects the control circuit, detects the incident power and reflected power through high-frequency measurement inductance, and provides the signal to the main control board to achieve automatic PID control;

RF interlock control module: mainly a switch signal mode, which can provide safety interlocking functions, such as RF output line interlocking, high-voltage interlocking, RF output interlocking, over-temperature interlocking and other control functions.

The core manufacturers of RF generators in the world include Advanced Energy, MKS Instruments, Comet PCT, DAIHEN Corporation, Trumpf, Adtec Plasma Technology, Kyosan Electric Manufacturing, XP Power, ULVAC, Shenzhen CSL Vacuum, Sichuan Injet Electric, Beijing Aurasky, etc. In terms of products, each company targets different markets and equipment frequencies. In the field of semiconductor equipment, 2MHz, 13.56MHz and 27.12MHz are the most widely used sub-products, and the market share of the three will exceed 60% in 2024.

The main downstream applications of RF power supply include semiconductors, photovoltaics, display panels, medical and RF sensing.

Semiconductor: such as etching, thin film deposition (CVD and PVD), ion implantation, cleaning and degumming, etc.; one of the moment equipment is equipped with 1 HF power supply and 1/2 LF power supply in a single cavity. The advantage of HF power supply as Source is that it can make particles in plasma collide more times, so as to obtain high-density particles; LF power supply as Bias source is easier to give particles higher speed and kinetic energy, so that ions have stronger bombardment ability.

Photovoltaic: mainly thin film deposition, used in the coating process of Topcon and HJT cell production.

Medical: mainly medical minimally invasive surgery. The advantage of RF energy in almost all medical applications comes from the heat generated by some form of RF generator. In minimally invasive surgery, skin tissue is usually destroyed by radiofrequency ablation. It is divided into monopolar and bipolar according to the type of radiofrequency electrode. In monopolar radiofrequency ablation, a group of electrodes uses a grounding plate to form a circuit flowing through the whole body, providing energy at the tumor location. The grounding plate serves as the return path of the radiofrequency current and is usually located on the patient's thigh or back. Bipolar radiofrequency ablation allows current to flow between multiple groups of electrodes and does not require the use of a grounding plate.

Industrial RF induction heating: RF power can also be used for heating, where induction heating is also called all-solid-state high-frequency induction heating. In terms of

application, in 2024, semiconductors will occupy a mainstream position, with a market share of more than 50%.

This report studies the global RF Generator production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global RF Generator total production and demand, 2021-2032, (Units)

Global RF Generator total production value, 2021-2032, (USD Million)

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

Global RF Generator consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: RF Generator domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global RF Generator 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, MKS Instruments, Comet PCT, DAIHEN Corporation, Trumpf, Adtec Plasma Technology, Kyosan Electric Manufacturing, XP Power, ULVAC, JEOL, 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 RF Generator market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global RF Generator Market, Segmentation by Type:

400KHz

2MHz

4MHz

13.56MHz

27.12Mhz

40.68MHz

60MHz

Others

Global RF Generator Market, Segmentation by Application:

Semiconductor

Solar

LCD

Industrial and Medical

Companies Profiled:

Advanced Energy

MKS Instruments

Comet PCT

DAIHEN Corporation

Trumpf

Adtec Plasma Technology

Kyosan Electric Manufacturing

XP Power

ULVAC

JEOL

Beijing Aurasky

Ascendia Co., Ltd

Seren IPS

Pearl Kogyo

Shenzhen CSL Vacuum

New Power Plasma

Youngsin RF Co., Ltd

Shanghai AENI Semiconductor

RF Power Tech

EQ Global

Coaxial Power Systems

Gmpower

Generator Research Limited

Sichuan Injet Electric

Foshan Instrument Technology

Hunan Zhongyuan

Shanghai Rock Technology

Wuhan Chengyuan Electronic Technology

Shanghai Lizhao Technology Co., Ltd

Shenzhen Rspower Technology Co., Ltd

Hunan Huaxin

Shanghai Semik Semiconductor

Chengdu Wattsine

Changzhou Rishige

DKK

T&C Power Conversion

Zhongshan Kvmen

SAIREM

Key Questions Answered:

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

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