

Global Electron Gun High-Voltage Power Supply Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Electron Gun High-Voltage Power Supply market size was valued at US\$ 626 million in 2025 and is forecast to a readjusted size of US\$ 823 million by 2032 with a CAGR of 4.2% during review period.

In 2024, global sales of Electron Gun High-Voltage Power Supply reached approximately 16,000 units, with an average market price of about USD 38,000 per unit, an annual production capacity of roughly 19,000 units, and an industry-average gross margin of approximately 35%.

An Electron Gun High-Voltage Power Supply is a specialized high-voltage DC source designed to deliver precise, ultra-stable voltage?typically from several kilovolts up to 60?150 kV?to an electron gun, thereby establishing the accelerating field between cathode and anode and accurately controlling beam energy and current. Unlike general-purpose high-voltage supplies, these units demand extremely low ripple and high stability, and often provide multiple outputs for the acceleration electrode, focus/suppressor electrodes, and filament; in many commercial designs, the acceleration, filament, focus and deflection supplies are integrated in a single chassis tailored to specific electron-gun configurations. They are used in electron-beam welding and additive systems, electron microscopes, e-beam exposure and lithography tools, X-ray sources, microwave vacuum tubes, and particle accelerators, forming one of the key determinants of performance and reliability for electron-beam systems.

On the upstream side, electron-gun high-voltage power supplies depend on specialized vendors of high-voltage transformers and magnetics, power semiconductors, insulation

materials and vacuum feedthroughs, precision dividers and sensing components, and control electronics such as FPGA/MCU boards, with some manufacturers also developing proprietary HV modules and isolated communication interfaces to meet insulation and safety requirements at tens of kilovolts. In the midstream, a relatively small group of high-voltage and e-beam equipment companies handle system-level design, assembly and testing, supplying complete racks, OEM modules or fully customized solutions to makers of electron-beam welders, microscopes, accelerators, and X-ray/microwave devices. Downstream demand is driven by semiconductor and display manufacturing, precision welding and additive manufacturing, life-science and materials analysis, medical imaging, and accelerator facilities, where these power supplies are purchased as capital equipment: consumption appears mainly as new installations linked to fab/tool build-outs and replacement/upgrade over an 8-12-year life cycle, making the segment highly sensitive to downstream capex cycles and industry sentiment.

This report is a detailed and comprehensive analysis for global Electron Gun High-Voltage Power Supply market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Electron Gun High-Voltage Power Supply market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Electron Gun High-Voltage Power Supply market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Electron Gun High-Voltage Power Supply market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Electron Gun High-Voltage Power Supply market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Electron Gun High-Voltage Power Supply

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Electron Gun High-Voltage Power Supply market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Excelitas, ULVAC EQUIPMENT, Spellman, Advanced Energy, MATSUSADA PRECISION, Teslaman Tech, Wiseman, Dongwen High Voltage, Tianjin Mingruichuang Technology, Xi'an Zhaofu Electronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Electron Gun High-Voltage Power Supply market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

HVDC

HPP

Market segment by Installation

Rack-mounted

Modular

Market segment by Application

Electron Microscope

X-ray Source

Others

Major players covered

Excelitas

ULVAC EQUIPMENT

Spellman

Advanced Energy

MATSUSADA PRECISION

Teslaman Tech

Wiseman

Dongwen High Voltage

Tianjin Mingruichuang Technology

Xi'an Zhaofu Electronics

Xunlei Cloud

Shenzhen Siweite

Beijing Quanta

Jinyake Electric

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Electron Gun High-Voltage Power Supply product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electron Gun High-Voltage Power Supply, with price, sales quantity, revenue, and global market share of Electron Gun High-Voltage Power Supply from 2021 to 2026.

Chapter 3, the Electron Gun High-Voltage Power Supply competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Electron Gun High-Voltage Power Supply breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Electron Gun High-Voltage Power Supply market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Electron Gun High-Voltage Power Supply.

Chapter 14 and 15, to describe Electron Gun High-Voltage Power Supply sales channel, distributors, customers, research findings and conclusion.

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