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Medical Power Supply Equipment Market Forecasts to 2030 – Global Analysis By Product Type (AC-DC Power Supplies, DC-DC Power Supplies, Batteries, Uninterruptible Power Supplies (UPS), Custom Power Supplies and Other Product Types), Equipment Type, Form Factor, Architecture, Application, End User and By Geography

https://marketpublishers.com/r/M02CEFF66E17EN.html
Date: March 2025
Pages: 150
Price: US$ 4,150.00 (Single User License)
ID: M02CEFF66E17EN

Abstracts

According to Stratistics MRC, the Global Medical Power Supply Equipment Market is growing at a CAGR of 8.5% during the forecast period. Medical power supply equipment are specialized electrical devices that offer dependable and controlled power to medical systems and equipment. In order to support vital healthcare applications such as imaging systems, surgical tools, diagnostic devices, and patient monitoring, these power supplies guarantee steady voltage, current, and frequency. They are made to adhere to strict safety and regulatory requirements (such IEC 60601-1), and they have features like low leakage current, isolation, and power fluctuation prevention. Medical power supplies, which ensure continuous operation and patient safety in hospitals, clinics, and healthcare facilities, come in a variety of forms, such as battery backup systems, uninterruptible power supplies (UPS), and AC-DC and DC-DC converters.

Market Dynamics:

Driver:

Rising Demand for Medical Devices

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The growing need for medical devices is a significant driver of the medical power supply equipment market, as new healthcare technologies necessitate dependable, efficient, and compact power solutions. Specialized power supplies are becoming more and more necessary as imaging systems, patient monitoring devices, and home healthcare equipment become more widely used. Further propelling market expansions are strict safety laws and the move toward wearable and portable medical technology. High-performance medical power solutions are becoming more and more in demand as hospitals and diagnostic facilities grow.

Restraint:

High Cost of Advanced Power Supplies

The high cost of sophisticated power supplies has a detrimental influence on the medical power supply equipment industry, limiting affordability and acceptance, particularly in cost-sensitive regions. Budgetary restrictions force hospitals and other healthcare organizations to rely on outdated or subpar alternatives and to purchase more slowly. Furthermore, exorbitant prices impede market growth and restrict access to cutting-edge medical gadgets that need dependable power sources, which eventually impacts patient care and technological developments in the healthcare industry.

Opportunity:

Technological Advancements

Technological developments are propelling the market, improving efficiency and reliability. Compact, lightweight designs for portable medical devices are made possible by innovations including wireless power transfer, downsizing, and increased power density. IoT integration and smart power management enhance real-time monitoring and lower failure rates. Strict regulatory requirements are also encouraging producers to create more effective, energy-saving products. The need for sophisticated power supply solutions in contemporary medical settings is further increased by the growth of wearable healthcare and AI-driven diagnostics.

Threat:

Complex Regulatory Compliance

Complex regulatory compliance is a significant problem for the medical power supply

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equipment market, raising product approval durations and development costs. Manufacturers face challenges due to strict safety and efficiency requirements, regionally specific regulations, and frequent policy changes. Obtaining certifications such as IEC 60601 delays market access by adding complexity. In the end, these constraints limit market expansion by discouraging smaller firms, slowing innovation, and raising operating burdens.

Covid-19 Impact

The COVID-19 pandemic significantly boosted the medical power supply equipment market, driven by increased demand for ventilators, patient monitoring devices, and other critical medical equipment. Hospitals expanded their capacities, fueling the need for reliable power solutions. Supply chain disruptions and semiconductor shortages initially hindered growth, but rising investments in healthcare infrastructure and home-based medical devices supported long-term market expansion.

The diagnostic equipment segment is expected to be the largest market share during the forecast period

The diagnostic equipment segment is expected to account for the largest market share during the forecast period, as these devices require high-efficiency, reliable power solutions to ensure precision and uninterrupted operation. The growing prevalence of chronic diseases, technological advancements, and increasing healthcare investments further fuel market expansion. Additionally, stringent regulatory standards necessitate specialized power supplies, enhancing safety and performance. This trend accelerates innovation and adoption, reinforcing the segment’s crucial role in market growth.

The DC-DC power supplies segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the DC-DC power supplies segment is predicted to witness the highest growth rate, because these converters exceed strict safety and regulatory requirements by enabling reliable power delivery for implanted, portable, and battery-operated medical equipment. Their contribution to surgical instruments, diagnostic imaging, and patient monitoring drives market expansion. Adoption is also aided by the growing need for wearable technology and home healthcare solutions. Innovation in medical power supply technology is further fueled by developments in high-efficiency, low-noise DC-DC converters.

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Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share due to rising demand for advanced healthcare infrastructure, increasing adoption of home healthcare devices, and a growing aging population. Technological advancements, stringent safety regulations, and the expansion of medical device manufacturing further fuel market growth. Additionally, the surge in high-power-consuming medical equipment, such as MRI and CT scanners, boosts demand for reliable power solutions. The increasing prevalence of chronic diseases also contributes to market expansion, ensuring steady growth.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, attributed to increasing frequency of chronic diseases, and the increased utilization of medical technologies. Rapid technology improvements, government investments in healthcare, and the proliferation of hospitals and diagnostic facilities all contribute to the market's expansion. Additionally, the need for small and effective power supply solutions is fueled by the growth in wearable medical technology and home healthcare services.

Key players in the market

Some of the key players profiled in the Medical Power Supply Equipment Market include TDK-Lambda Corporation, Delta Electronics, Analog Devices, Inc., Siemens Healthineers, GE Healthcare, Schneider Electric, Astrodyne TDI, Johnson & Johnson, Cardinal Health Inc., Murata Manufacturing Co., Ltd., Vicor Corporation, Power Integrations, Inc., Cosel Co., Ltd., Medtronic PLC, Emerson Electric and Abbott Laboratories.

Key Developments:

In October 2024, Analog Devices, Inc. launched a suite of developer-centric offerings that unite cross-device, cross-market hardware, software and services to help customers deliver innovations for the Intelligent Edge with enhanced speed and security.

In September 2024, Tata Electronics, Tata Motors, and Tejas Networks signed a Memorandum of Understanding (MoU) with ADI to enhance strategic and business

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cooperation, explore opportunities for semiconductor manufacturing in India, and use ADI's products in Tata applications like electric vehicles and network infrastructure.

In July 2024, Analog Devices, Inc. and Flagship Pioneering announced a strategic alliance to accelerate the development of a fully digitized biological world.

Product Types Covered:

- AC-DC Power Supplies
- DC-DC Power Supplies
- Batteries
- Uninterruptible Power Supplies (UPS)
- Custom Power Supplies
- Other Product Types

Equipment Types Covered:

- Imaging Equipment
- Patient Monitoring Equipment
- Surgical Devices
- Therapeutic Equipment
- Dental Equipment

Form Factors Covered:

- External
- Embedded

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Open Frame

Plug-In

Architectures Covered:

Enclosed Power Supply

Open Frame Power Supply

External Power Supply

U-Bracket Power Supply

Encapsulated Power supply

Configurable Power supply

Applications Covered:

ECG Machines

MRI Machines

Ventilators

Dental Chairs

Microscopes

Other Applications

End Users Covered:

Hospitals

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- Clinics
- Ambulatory Surgical Centers
- Home Healthcare
- Emergency Services
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan

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China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants

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- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Contents

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12 KEY DEVELOPMENTS

13 COMPANY PROFILING

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List Of Tables

LIST OF TABLES

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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