

# AC-DC Power Supply Units Market is Projected to Hit Market Size 10.64 USD Billion by 2032

*AC-DC power supply units market is growing steadily with increased demand for efficient, high-performance, and compact power solutions across various sectors.*

NY, UNITED STATES, February 7, 2025 /EINPresswire.com/ -- According to the latest market research report released by Wise Guy Reports, Ac Dc Power Supply Units Market Size was estimated at 6.96 (USD Billion) in 2023 and it is expected to grow from 7.29(USD Billion) in 2024 to 10.64 (USD Billion) by 2032. The Ac Dc Power Supply Units Market CAGR (growth rate) is expected to be around 4.83% during the forecast period (2025 - 2032).



## Market Overview

The AC-DC power supply units (PSUs) are essential components that convert alternating current (AC) into direct current (DC) power, which is required for various electronic devices and industrial applications. These units play a pivotal role in providing stable and reliable power to a wide range of electronic devices, from consumer electronics to industrial machinery, telecommunications equipment, medical devices, and more.

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The global AC-DC power supply units market is experiencing steady growth due to increased demand for efficient, high-performance, and compact power solutions across various sectors. The market is characterized by the growing need for power conversion in industries such as consumer electronics, automotive, telecommunications, and industrial automation. With

advancements in power electronics, increasing integration of renewable energy sources, and the shift towards automation, the demand for AC-DC power supplies is expected to grow significantly in the coming years.

The market is driven by technological innovations aimed at improving energy efficiency, reducing form factors, and enhancing the reliability of power supply systems. With the rise of smart grids, electric vehicles (EVs), and Internet of Things (IoT) devices, the AC-DC power supply unit market is evolving rapidly to meet the growing demands of these sectors.

### Market Trends

**Miniaturization and Compact Design:** One of the prominent trends in the AC-DC power supply unit market is the miniaturization of power supply units without compromising on performance or efficiency. Consumers and industries alike are seeking more compact and lightweight power supplies that offer high output power capabilities, which is driving manufacturers to develop smaller, more energy-efficient solutions.

**Energy Efficiency and Low Power Consumption:** Energy-efficient AC-DC power supplies are in high demand, particularly due to rising concerns about environmental impact and the need to reduce energy consumption. Regulatory bodies across the globe, such as the U.S. Department of Energy (DoE) and the European Union (EU), have implemented stringent energy efficiency standards for power supplies, encouraging manufacturers to adopt energy-saving technologies like wide input voltage range, high power factor correction (PFC), and low standby power consumption.

**Integration with Renewable Energy Sources:** As renewable energy sources such as solar power and wind energy gain traction worldwide, the demand for efficient AC-DC conversion solutions for energy storage systems is increasing. Power supply units that can seamlessly integrate with these renewable energy sources are becoming increasingly important for efficient energy management in industries and homes.

**Digitalization and Automation:** The rise of Industry 4.0, smart factories, and automation is driving demand for more sophisticated AC-DC power supplies that support automated and digitally-controlled environments. With systems that demand precise power delivery, high-performance power supplies with integrated digital controls, protection mechanisms, and real-time monitoring capabilities are gaining popularity.

**Wireless Charging and Electric Vehicles:** As electric vehicles (EVs) become more mainstream, the need for specialized AC-DC power supplies for EV charging stations is increasing. Wireless charging solutions for consumer electronics and electric vehicles are also driving innovation in the AC-DC power supply market, where seamless charging without the need for physical connectors is becoming a preferred solution.

**Adoption of Gallium Nitride (GaN) Technology:** The integration of Gallium Nitride (GaN)

technology in AC-DC power supplies is enhancing performance by improving efficiency and reducing the size of power converters. GaN devices offer higher switching frequencies, which enables faster power conversion, reduced thermal loss, and compact designs, thus contributing to market growth.

### Regional Analysis

The global AC-DC power supply market is segmented into key regions, each with its own unique market dynamics and growth potential:

**North America:** North America is one of the largest markets for AC-DC power supply units, driven by the high demand for reliable power solutions in industries like telecommunications, aerospace, automotive, and consumer electronics. The region is also witnessing significant growth in electric vehicles, which is fueling demand for AC-DC power supplies. Additionally, the increasing adoption of renewable energy sources and the shift towards smart grids are expected to drive market growth further.

**Europe:** Europe has a well-established market for power supply units, particularly in countries such as Germany, France, and the UK. The EU's focus on achieving high energy efficiency standards and the shift towards renewable energy sources has created a favorable environment for AC-DC power supplies. Moreover, the growing demand for electric vehicle charging infrastructure is contributing to the market expansion.

**Asia-Pacific:** The Asia-Pacific (APAC) region is expected to witness the fastest growth in the AC-DC power supply unit market. China, Japan, and South Korea are key contributors to the market in the region, where rapid industrialization, urbanization, and adoption of cutting-edge technologies like IoT and 5G are driving the demand for power supplies. The rising popularity of consumer electronics and the automotive sector in countries like China and India is also a significant growth driver for the market.

**Latin America:** Latin America is an emerging market for AC-DC power supplies, driven by the expansion of telecommunications infrastructure and industrial automation projects. As countries in the region look to modernize their power grids and energy infrastructure, the demand for efficient AC-DC power supplies is increasing. Brazil and Mexico are key markets within the region.

**Middle East and Africa:** The Middle East and Africa (MEA) region is experiencing moderate growth in the AC-DC power supply market. The rising demand for renewable energy solutions, particularly in countries like Saudi Arabia and the UAE, is driving the need for efficient power conversion systems. Additionally, the growing adoption of smart grid technologies and the expansion of industrial sectors in the region are contributing to the market's development.

### Ac Dc Power Supply Units Market Key Players And Competitive Insights:

Major players in Ac Dc Power Supply Units Market industry are focusing on expanding their

product portfolio and geographical reach to cater to the growing demand for these devices. Leading Ac Dc Power Supply Units Market players are also investing heavily in research and development activities to stay ahead of the competition. The Ac Dc Power Supply Units Market development is expected to be driven by the increasing adoption of these devices in various applications, such as industrial automation, medical equipment, and consumer electronics.

Key Companies in the Ac Dc Power Supply Units Market Include:

- MEAN WELL Enterprises CO., Ltd.
- TDK Corporation
- Bel Fuse Inc.
- Emerson Electric Co.
- Artesyn Technologies
- Vicor Corporation
- CUI Inc.
- XP Power
- Delta Electronics, Inc.
- RECOM Power GmbH
- Artesyn Embedded Technologies
- Murata Manufacturing Co., Ltd.
- Astronics Corporation
- Excelsys Technologies
- Cosel Co., Ltd.

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### Recent Developments

**Technological Advancements:** Recently, major players in the AC-DC power supply market have been incorporating GaN technology to improve power conversion efficiency and reduce the physical footprint of power supplies. GaN-based power converters are capable of operating at higher frequencies, offering enhanced performance in terms of reduced power losses and compact designs.

**Growth of Electric Vehicle (EV) Charging Infrastructure:** With the rapid adoption of electric vehicles, the need for specialized AC-DC power supplies for EV charging stations is on the rise. Companies are focusing on the development of fast-charging solutions and wireless charging technologies, opening new avenues in the AC-DC power supply market.

**Mergers and Acquisitions:** Several key players in the AC-DC power supply industry are pursuing mergers and acquisitions to enhance their product portfolios and expand their market reach. For instance, companies are acquiring smaller power supply firms to integrate innovative technologies, such as digital controls and advanced protection features, into their offerings.

Energy Regulations: Global energy efficiency standards are becoming more stringent, which is compelling manufacturers to develop AC-DC power supply solutions that meet these criteria. Regulatory frameworks like the Energy Star Program and IEC (International Electrotechnical Commission) standards are pushing the industry towards higher energy efficiency, driving growth in demand for advanced power supplies.

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The AC-DC power supply unit market is poised for continued growth driven by technological advancements, the shift towards renewable energy, and the increasing demand for automation across industries. The market is evolving to meet the needs of emerging applications such as electric vehicles, renewable energy systems, and IoT devices. Companies that can offer energy-efficient, compact, and reliable power supplies will be well-positioned to capitalize on these growing trends and expand their market share. With North America, Europe, and the Asia-Pacific region leading the charge, the market holds significant potential for future development in the coming years.

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