

DC Power Supplies Market Report by Product Type (AC-DC, DC-DC), Output Power (Low Output (Less Than 10 kW), Medium Output (10–100 kW), High Output (Above 100 kW)), Application (Military, Aerospace and Defense, Automotive, Energy, Telecommunication, Healthcare, Consumer Electronics, and Others), and Region 2024-2032

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Abstracts

The global DC power supplies market size reached US\$ 434.7 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 607.1 Million by 2032, exhibiting a growth rate (CAGR) of 3.7% during 2024-2032.

Direct current (DC) power supplies refer to an embedded circuit that provides constant and stabilized power supply to electronic modules. They are commonly available in two forms, namely switching and linear power supplies. The switching variants are compact and light-weight, offer higher power efficiency and can be efficiently used for devices with low, medium and high power output. The linear variants use large transformers to drop the voltage to alternating current (AC) and then convert it into DC voltage. DC power supplies offer various benefits, such as repeatable power on and off with minimal input related problems and higher accuracy in readbacks, thereby eliminating the need for external meters, shunts, relays and switching calibration.

The increasing demand for energy-efficient power supplies for consumer electronics, along with the emerging trend of industrial automation across the globe, represents one of the key factors driving the growth of the market. Furthermore, the widespread adoption of wireless communication systems across industries, such as aerospace, defense and telecommunications, is also driving the market growth. Electronic systems

in industrial units require precise voltage supply that is stabilized over fluctuations, thereby enhancing the requirement for DC power supplies. They are also used to test automobile batteries, fuel cells, charging stations, on-board chargers and digital interfaces. Additionally, various technological advancements, such as the integration of electronic devices with the Internet of Things (IoT), are acting as other growth-inducing factors. Various devices, such as laptops, smartphones and tablets, depend on DC power supplies for maintaining a constant supply of voltage, which, therefore, is facilitating their demand. Other factors, including the development of programmable DC power supplies, along with significant improvements in the information technology (IT) infrastructure, are anticipated to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global DC power supplies market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product type, output power and application.

Breakup by Product Type:

- AC-DC
- DC-DC

Breakup by Output Power:

- Low Output (Less Than 10 kW)
- Medium Output (10–100 kW)
- High Output (Above 100 kW)

Breakup by Application:

- Military, Aerospace and Defense
- Automotive
- Energy
- Telecommunication
- Healthcare
- Consumer Electronics
- Others

Breakup by Region:

- North America

United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being Acopian Technical Company, Ametek Inc., B&K Precision Corporation, Chroma ATE Inc., Good Will Instrument Co. Ltd., Keysight Technologies Inc., Magna-Power Electronics Inc., MEAN WELL Enterprises Co. Ltd., Rohde & Schwarz GmbH & Co KG, TDK Corporation and Tektronix Inc. (Fortive Corporation).

Key Questions Answered in This Report

1. What was the size of the global DC power supplies market in 2023?
2. What is the expected growth rate of the global DC power supplies market during 2024-2032?
3. What are the key factors driving the global DC power supplies market?
4. What has been the impact of COVID-19 on the global DC power supplies market?
5. What is the breakup of the global DC power supplies market based on the product

type?

6. What is the breakup of the global DC power supplies market based on the output power?
7. What is the breakup of the global DC power supplies market based on the application?
8. What are the key regions in the global DC power supplies market?
9. Who are the key players/companies in the global DC power supplies market?

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