

Alternating Current AC Power Source Global Market Forecast To Reach \$1.45 Billion by 2029

The Business Research Company's Global Alternating Current AC Power Source Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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Alternating Current (AC) Power Source Global Market Report 2025

The alternating current AC power source market has demonstrated consistent growth in recent years and is projected to rise from \$1.18 billion in 2024 to \$1.23 billion in 2025. This represents a

compound annual growth rate CAGR of 4.4%. This trend observed in the historic period can be attributed to factors such as intensifying demand for energy-efficient electronic devices, growth in the renewable energy sector, surging deployment of electronic devices, rising adoption of electric vehicles, as well as escalating interest in energy efficiency and sustainability.

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Where Is The Alternating Current AC Power Source Market Headed In The Future?

Future projections signal steady growth for the alternating

current AC power source market, which is expected to reach \$1.45 billion in 2029 at a compound annual growth rate CAGR of 4.1%. The growth forecast for this period can be attributed to an increase in renewable energy integration, advanced smart grid development, escalating industrial automation, and greater power demand. Additionally, the electronics testing and development sector is also projected to command sizeable demand. The forecast period holds several trends such as the integration of IoT for remote management, advancements in smart grid technologies, the expansion of aerospace and defense applications, innovative technological

developments in power electronics, alongside diverse collaborations and partnerships.

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What's Fueling The [Growth Of The Alternating Current AC Power Source Market?](#)

The growth of the AC power source market is further fueled by the adoption of renewable energy sources. These natural reservoirs include sunlight, wind, water and geothermal heat that are continuously replenished. Their ability to generate clean, sustainable energy continue to drive advancements in clean energy technologies - making sun and wind energy highly efficient and affordable. Alternating current AC power sources are pivotal to the renewable energy sector by efficiently transmitting electricity generated from solar and wind sources over significant distances with minimal loss. This makes it easier to integrate clean energy into existing power grids. In fact, in February 2025, the World Resources Institute, a US-based non-profit organization, reported that solar energy set a new record by adding an estimated 39.6 gigawatts GW of capacity in 2024, surpassing the previous year's record of 27.4 GW.

Who Are The Key Players In The [Alternating Current AC Power Source Market?](#)

Taking a closer look at the industry landscape, we see key players like AMETEK Programmable Power Inc, Keysight Technologies Inc., Advanced Energy Industries Inc., Tektronix Inc., Chroma ATE Inc., Kikusui Electronics Corporation, NF Corporation, Sophpower Electronics, Matsusada Precision Inc., Good Will Instrument Co Ltd, Regatron AG, Behlman Electronics, B&K Precision Corporation, ITECH Electronic, AC Power Corp, Pacific Power Source, Newtons4th Ltd, Aplab Limited, Ikonix Corporation, and ET Systems Electronic. These companies continue to make significant strides in the alternating current AC power source market, particularly through innovative products like programmable AC power sources. These advanced electrical devices are capable of generating alternating current AC with adjustable parameters such as voltage, frequency, phase angle, and waveform.

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How Is The Alternating Current AC Power Source Market Segmented?

The report also highlights alternating current ac power source market segmentation by type, modulation type, application, and the respective sub-segments for each. By type, the market is divided between single-phase and three-phase AC power sources. Modulation types include pulse-width modulation and linear, while applications cover a broad range from aerospace and defense, automotive, consumer electronics, to medical devices, telecommunications, and others.

What are the regional insights in the alternating current ac power source market?

Examining regional trends, Asia-Pacific takes the lead as the largest region in the AC power

source market in 2024, and anticipates the fastest growth during the forecast period. The report covers regions including Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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