

# Active Harmonic Filter Market by Type (Shunt, Hybrid), Voltage (Low (

## Abstracts

The global active harmonic filter (AHF) market is projected to reach USD 1.11 billion by 2030 from an estimated USD 0.76 billion in 2025, at a CAGR of 7.8% during the forecast period. The AHF market is driven by the increasing global demand for enhanced power quality, improved energy efficiency, and reliable electrical infrastructure. Rapid industrialization, urbanization, and automation are increasing the use of nonlinear loads such as drives, inverters, and UPS systems, which generate harmful harmonics. AHFs mitigate these distortions, enhance equipment lifespan, and ensure compliance with international standards for power quality. Advancements in digital control, modular design, and real-time monitoring are improving system performance and scalability.

“By phase, the three-phase segment is expected to remain the largest segment during the forecast period.”

In the AHF market, the three-phase segment is expected to remain the largest during the forecast period. This dominance is primarily attributed to the widespread use of three-phase electrical systems in industrial, commercial, and utility applications, where high-power equipment, such as motors, variable frequency drives, and automation systems, generates significant harmonic distortion. Three-phase AHFs offer superior harmonic mitigation, improved power factor correction, and enhanced load balancing compared to single-phase systems. Their ability to handle higher loads and complex electrical networks makes them ideal for heavy industries, data centers, and renewable energy installations. Additionally, growing investments in industrial automation, smart manufacturing, and grid modernization are boosting demand for efficient power quality solutions. With advancements in digital control and IGBT-based inverter technologies, three-phase AHFs continue to play a vital role in ensuring stable and energy-efficient electrical operations.

“By application, automation & electronics is projected to be the fastest-growing segment during the forecast period.”

The automation & electronics segment is expected to be the fastest-growing in the AHF market, driven by the rapid adoption of automation technologies, robotics, and advanced electronic equipment across industries. These systems rely heavily on power

electronics, which generate harmonic distortions affecting equipment performance and energy efficiency. The increasing demand for precision control, uninterrupted operations, and compliance with IEEE power quality standards is further fueling the need for AHFs. Additionally, the expansion of semiconductor and electronics manufacturing facilities worldwide supports sustained market growth.

“By region, North America is expected to be the second-largest region in the AHF market during the forecast period.”

By region, North America is expected to be the second-largest market for AHF during the forecast period. This growth is driven by the strong presence of industrial automation, data centers, renewable energy projects, and electric vehicle infrastructure across the US and Canada. The region's focus on enhancing power quality, improving energy efficiency, and complying with IEEE-519 and other regulatory standards is further fueling demand. Additionally, increasing investments in smart grid modernization and advanced manufacturing facilities are creating significant opportunities for deployment. The widespread adoption of digital technologies and sustainable energy initiatives reinforces North America's prominent position in the global AHF market.

### **Breakdown of Primaries:**

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information and assess future market prospects. The distribution of primary interviews is as follows:

By Company Type: Tier 1- 30%, Tier 2- 55%, and Tier 3- 15%

By Designation: C-Level Executives - 30%, Directors- 20%, and Others- 50%

By Region: North America- 20%, Europe- 8%, Asia Pacific- 55%, Middle East & Africa- 13%, and South America- 4%

Note: Others include product engineers, product specialists, and engineering leads.

Note: The tiers of the companies are defined based on their total revenues as of 2023.

Tier 1: > USD 1 billion, Tier 2: From USD 500 million to USD 1 billion, and Tier 3:

The AHF market is dominated by a few major players that have a wide regional presence. The leading players in the AHF market are MTE Corporation (US), TCI (US), Eaton (Ireland), TE Connectivity (US), Enerdoor (US), Schneider Electric (France), Hitachi Energy Ltd (Japan), Mirus International Inc. (US), Danfoss (Denmark),

Omniverter (US) and Hammond Power Solutions (Canada), among others.

### **Study Coverage:**

The report defines, describes, and forecasts the AHF market by technology, fuel source, power output, and end user. It also offers a detailed qualitative and quantitative analysis of the market. The report provides a comprehensive review of the major market drivers, restraints, opportunities, and challenges. It also covers various important aspects of the market. These include an analysis of the competitive landscape, market dynamics, market estimates in terms of value, and future trends in the AHF market.

### **Key Benefits of Buying the Report**

The AHF market is driven by the global shift toward efficient, reliable, and power-quality-enhancing electrical solutions, as industries and utilities focus on improving energy performance and reducing system losses. Active harmonic filters offer a crucial solution for mitigating harmonic distortion, reactive power issues, and voltage instability caused by nonlinear loads, including drives, inverters, and renewable energy systems. Their ability to enhance grid stability and equipment efficiency supports the integration of automation and clean energy technologies, thereby facilitating a more sustainable energy system. Technological advancements in digital control, modular architecture, and real-time monitoring are improving system scalability and performance. With the rising need for stable, efficient, and sustainable electrical infrastructure, Active Harmonic Filters are becoming essential components in the global energy transition.

**Product Development/Innovation:** In September 2025, MTE Corporation launched its next-generation active harmonic filter, SyntriX AHF, in Menomonee Falls, Wisconsin. Powered by Silicon Carbide (SiC) technology, it boasts over 99% efficiency, a

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