

Global High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms Market Growth 2026-2032

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Abstracts

The global High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms market size is predicted to grow from US\$ 56.74 million in 2025 to US\$ 398 million in 2032; it is expected to grow at a CAGR of 29.6% from 2026 to 2032.

High-density liquid-cooled AC/DC rectifier modules for data-centre and telecom power-room applications refer to modular power-conversion units that convert single-phase or three-phase AC input into regulated DC output for rack-level, cabinet-level or facility-level DC power architectures. These modules are typically based on high-frequency switch-mode power conversion, active power-factor correction, digital control, hot-swappable or serviceable mechanical designs, and liquid-assisted thermal management such as cold-plate cooling, conduction cooling, dripless liquid-loop interfaces, immersion-compatible packaging or hybrid liquid-and-air cooling. Typical output architectures include 48V/54V rack power, 240V/380V high-voltage DC, and programmable wide-range DC outputs. Depending on power rating and integration level, mainstream module power may range from approximately 3kW to more than 30kW per module.

Based on publicly observable product positioning, liquid-cooled or conduction-cooled high-power rectifier modules are typically priced above conventional air-cooled telecom rectifiers, with indicative module-level prices ranging from roughly USD 2,000 to USD 20,000 where advanced cooling interfaces, hot-swap design, communication functions, certification and customer-specific engineering are required.

Based on our research, high-density liquid-cooled AC/DC rectifier modules for data-centre and telecom power-room applications should be treated as an emerging power-

electronics segment rather than a conventional telecom rectifier market. The product is positioned at the intersection of rack-level power delivery, high-voltage or 48V/54V DC distribution, liquid-cooled IT infrastructure and modular critical-power architectures. Its strategic relevance is rising because AI and HPC racks are pushing power density beyond the comfort zone of traditional air-cooled power-conversion units. In this context, the rectifier module becomes not only a conversion device, but also a thermal-management, serviceability and space-efficiency component in the wider data-centre energy chain.

From a supply-side perspective, the number of companies with clear official evidence for liquid-cooled or conduction-cooled high-density rectifier modules remains limited. OmniOn Power, Astrodyne TDI and the historical ABB/HPE project evidence represent the most direct Western supply-side references. Taiwan-based suppliers such as Compuware and LITEON are more closely aligned with liquid-cooled AI server PSU and rack power architectures. Chinese suppliers such as InfyPower, KSTAR, Sinexcel and VAPEL show strong capability in liquid-cooled power-conversion modules, ultra-fast charging rectifier cabinets and energy-storage converters, but most of these revenues should not be directly counted in the narrow data-centre rectifier-module market unless data-centre or telecom power-room deployment is evidenced.

The market remains small in 2025 under a strict definition, but its growth outlook is strong. The primary drivers are AI rack power density, liquid-cooled server deployment, 48V/54V rack power adoption, high-voltage DC architectures and the need to reduce fan power and maintenance complexity. The most likely industry path is not a sudden replacement of all conventional rectifiers, but a phased adoption in high-end AI/HPC clusters, supercomputing systems, selected telecom central offices and dense edge facilities. Over time, the boundary between rectifier module, server PSU, power shelf and rack-level power system will become more commercially important than the traditional product labels used by suppliers.

LP Information, Inc. (LPI) ' newest research report, the "High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms Industry Forecast" looks at past sales and reviews total world High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms sales in 2025, providing a comprehensive analysis by region and market sector of projected High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms sales for 2026 through 2032. With High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High-density

Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms industry.

This Insight Report provides a comprehensive analysis of the global High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms and breaks down the forecast by Product Function, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms.

This report presents a comprehensive overview, market shares, and growth opportunities of High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms market by product type, application, key manufacturers and key regions and countries.

Segmentation by Product Function:

AC/DC Rectifier Module

Bidirectional ACDC Module

Server PSU / Power Shelf Module

HVDC Bulk Rectifier Module

Other

Segmentation by Cooling Architecture:

Cold-plate / Conduction Cooling

Direct Liquid-loop Cooling

Immersion-compatible Cooling

Hybrid Liquid-and-Air Cooling

Other

Segmentation by DC Output Architecture:

48V / 54V Rack Power

240V / 380V HVDC

Programmable Wide-range DC

Other

Segmentation by Deployment Layer:

Module / Blade Level

Shelf / Subrack Level

Cabinet / Rack Level

Facility / Power-room Level

Segmentation by Application:

AI / HPC Data Centers

Telecom Central Office / RAN

Edge Data Centers

EV Charging / ESS Power Rooms

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

OmniOn Power

Astrodyne TDI

Compuware Technology Inc.

LITEON Technology Corporation

Honor Electronic

Gospower

ABB Ltd.

InfyPower

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms market?

What factors are driving High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms market opportunities vary by end market size?

How does High-density Liquid-cooled AC/DC Rectifier Modules for Data-center and Telecom Power Rooms break out by Product Function, by Application?

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