

Global Solid-State Ionic Cooling Modules Market Growth 2026-2032

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Abstracts

The global Solid-State Ionic Cooling Modules market size is predicted to grow from US\$ 7.28 million in 2025 to US\$ 17.53 million in 2032; it is expected to grow at a CAGR of 10.0% from 2026 to 2032.

Solid-State Ionic Cooling Modules are compact thermal management devices that use ion-driven or electrohydrodynamic airflow to move heat away from electronic components without traditional rotating fans or mechanical pumps. Unlike conventional active cooling systems, these modules have few or no moving mechanical parts, enabling thinner design, lower noise, reduced vibration, and potentially higher reliability. They are mainly used for localized cooling in compact electronics, AI edge devices, laptops, wearable devices, optical modules, sensors, and high-density electronic systems where space, noise, and energy efficiency are important. In 2025, global Solid-State Ionic Cooling Modules production reached approximately 62 k units, with an average global market price of around 120 USD/unit. The production capacity for Solid-State Ionic Cooling Modules in 2025 was approximately 80 k units. The typical gross profit margin for Solid-State Ionic Cooling Modules between 20% and 40%.

The Solid-State Ionic Cooling Modules market is an emerging thermal management segment driven by the rising heat density of electronic devices, AI computing, miniaturized consumer electronics, and edge computing systems. As traditional fans and passive heat sinks face limitations in ultra-thin, silent, and compact devices, solid-state ionic cooling modules are gaining attention as a new active cooling solution. Market demand is expected to grow in applications such as laptops, smartphones, AR/VR devices, AI edge terminals, optical communication modules, and compact industrial electronics. However, the market is still at an early stage, and large-scale adoption will depend on improvements in cooling performance, power efficiency,

durability, cost reduction, and integration with existing device designs.

LP Information, Inc. (LPI) ' newest research report, the "Solid-State Ionic Cooling Modules Industry Forecast" looks at past sales and reviews total world Solid-State Ionic Cooling Modules sales in 2025, providing a comprehensive analysis by region and market sector of projected Solid-State Ionic Cooling Modules sales for 2026 through 2032. With Solid-State Ionic Cooling Modules sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solid-State Ionic Cooling Modules industry.

This Insight Report provides a comprehensive analysis of the global Solid-State Ionic Cooling Modules 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 Solid-State Ionic Cooling Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solid-State Ionic Cooling Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solid-State Ionic Cooling Modules and breaks down the forecast by Type, 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 Solid-State Ionic Cooling Modules.

This report presents a comprehensive overview, market shares, and growth opportunities of Solid-State Ionic Cooling Modules market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Electro Hydro Dynamic (EHD)

Dielectric Barrier Discharge (DBD)

Segmentation by Technology Maturity:

Prototyping Stage

Early Commercialization Stage

Mass Production Stage

Segmentation by Application:

Consumer Electronics

AI Servers / Data Centers

Industrial Electronics

Aerospace

Others

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.

Ventiva

Ionic Wind

YPlasma

Cedrion

Fusion Dynamics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Solid-State Ionic Cooling Modules market?

What factors are driving Solid-State Ionic Cooling Modules market growth, globally and by region?

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

How do Solid-State Ionic Cooling Modules market opportunities vary by end market size?

How does Solid-State Ionic Cooling Modules break out by Type, by Application?

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