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Global Solid-State Ionic Cooling Modules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Solid-State Ionic Cooling Modules market size was valued at US$ 7.66 million in 2025 and is forecast to a readjusted size of US$ 17.85 million by 2032 with a CAGR of 9.4% during review period.

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

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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.

This report is a detailed and comprehensive analysis for global Solid-State Ionic Cooling Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Solid-State Ionic Cooling Modules market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Solid-State Ionic Cooling Modules market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Solid-State Ionic Cooling Modules market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Solid-State Ionic Cooling Modules market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Solid-State Ionic Cooling Modules

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Solid-State Ionic Cooling Modules market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ventiva, Ionic Wind, YPlasma, Cedrion, Fusion Dynamics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Solid-State Ionic Cooling Modules market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Electro Hydro Dynamic (EHD)

Dielectric Barrier Discharge (DBD)

Market segment by Technology Maturity

Prototyping Stage

Early Commercialization Stage

Mass Production Stage

Market segment by Application

Consumer Electronics

AI Servers / Data Centers

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Industrial Electronics

Aerospace

Others

Major players covered

Ventiva

Ionic Wind

YPlasma

Cedrion

Fusion Dynamics

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Solid-State Ionic Cooling Modules product scope, market overview, market estimation caveats and base year.

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Chapter 2, to profile the top manufacturers of Solid-State Ionic Cooling Modules, with price, sales quantity, revenue, and global market share of Solid-State Ionic Cooling Modules from 2021 to 2026.

Chapter 3, the Solid-State Ionic Cooling Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solid-State Ionic Cooling Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Solid-State Ionic Cooling Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solid-State Ionic Cooling Modules.

Chapter 14 and 15, to describe Solid-State Ionic Cooling Modules sales channel, distributors, customers, research findings and conclusion.

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