

Global Solid-State Ionic Cooling Modules Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6D07CD600A8EN.html>

Date: July 2026

Pages: 95

Price: US\$ 4,480.00 (Single User License)

ID: G6D07CD600A8EN

Abstracts

The global Solid-State Ionic Cooling Modules market size is expected to reach \$ 17.85 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global Solid-State Ionic Cooling Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solid-State Ionic Cooling Modules and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solid-State Ionic Cooling Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solid-State Ionic Cooling Modules total production and demand, 2021-2032, (K Units)

Global Solid-State Ionic Cooling Modules total production value, 2021-2032, (USD Million)

Global Solid-State Ionic Cooling Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Solid-State Ionic Cooling Modules consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Solid-State Ionic Cooling Modules domestic production, consumption, key domestic manufacturers and share

Global Solid-State Ionic Cooling Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Solid-State Ionic Cooling Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Solid-State Ionic Cooling Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Solid-State Ionic Cooling Modules market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World Solid-State Ionic Cooling Modules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Solid-State Ionic Cooling Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid-State Ionic Cooling Modules Market, Segmentation by Type:

Electro Hydro Dynamic (EHD)

Dielectric Barrier Discharge (DBD)

Global Solid-State Ionic Cooling Modules Market, Segmentation by Technology
Maturity:

Prototyping Stage

Early Commercialization Stage

Mass Production Stage

Global Solid-State Ionic Cooling Modules Market, Segmentation by Application:

Consumer Electronics

AI Servers / Data Centers

Industrial Electronics

Aerospace

Others

Companies Profiled:

Ventiva

Ionic Wind

YPlasma

Cedrion

Fusion Dynamics

Key Questions Answered:

1. How big is the global Solid-State Ionic Cooling Modules market?
2. What is the demand of the global Solid-State Ionic Cooling Modules market?
3. What is the year over year growth of the global Solid-State Ionic Cooling Modules market?
4. What is the production and production value of the global Solid-State Ionic Cooling

Modules market?

5. Who are the key producers in the global Solid-State Ionic Cooling Modules market?

6. What are the growth factors driving the market demand?

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