

Global Solid-State Cooling Module Market Growth 2026-2032

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Abstracts

The global Solid-State Cooling Module market size is predicted to grow from US\$ 959 million in 2025 to US\$ 3265 million in 2032; it is expected to grow at a CAGR of 19.2% from 2026 to 2032.

In 2025, global Solid-State Cooling Module production reached approximately 30.63 million units, with an average global market price of around USD 32 per unit.

The gross profit margin of major companies in the industry is between 23.68%–42.75%.

In 2025, the global production capacity of Solid-State Cooling Module was approximately 40.30 million units.

Solid-State Cooling Module is a compact thermal management module that provides cooling without traditional refrigerant-based mechanical compression. It may use thermoelectric, electrocaloric, magnetocaloric or other solid-state cooling principles to move heat through electronic or material-state changes. The product is used in electronics cooling, medical devices, optical modules, portable refrigerators, battery systems, semiconductor equipment, sensors and precision temperature control. The market includes packaged solid-state cooling modules and integrated thermal subassemblies, but excludes ordinary fans, vapor-compression compressors and complete refrigeration appliances.

The industry chain includes thermoelectric materials, ceramic substrates, semiconductor chips, solder materials, heat spreaders, thermal interface materials, heat sinks, control boards, sensors and sealing materials. Midstream production covers material preparation, chip cutting, module assembly, soldering, sealing, thermal testing,

electrical testing and reliability validation. Downstream demand comes from electronics, medical instruments, optical communications, automotive thermal management, laboratory devices, battery systems and precision equipment. Growth is driven by compact cooling demand, low-noise operation, precise temperature control, portable devices and emerging solid-state refrigeration technologies.

United States market for Solid-State Cooling Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Solid-State Cooling Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Solid-State Cooling Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Solid-State Cooling Module players cover Ferrotec Corporation, Tark Thermal Solutions, Coherent Corp., TE Technology, Inc., TEC Microsystems GmbH, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solid-State Cooling Module 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 Cooling Module.

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

Segmentation by Type:

Thermoelectric Cooling Modules

Peltier Cooling Modules

Micro Thermoelectric Cooling Modules

Segmentation by Module Structure:

Single-Stage Cooling Modules

Multi-Stage Cooling Modules

Integrated Heat Sink Cooling Modules

Segmentation by Cooling Capacity:

Low Capacity??20 W?

Medium Capacity?21–100 W?

High Capacity??100 W?

Segmentation by Application:

Electronics Cooling

Medical Device Temperature Control

Optical and Laser Equipment Cooling

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.

Ferrotec Corporation

Tark Thermal Solutions

Coherent Corp.

TE Technology, Inc.

TEC Microsystems GmbH

European Thermodynamics Ltd.

Sheetak, Inc.

Phononic, Inc.

Frore Systems, Inc.

KELK Ltd.

Kryotherm Industries

Guangdong Fuxin Technology Co., Ltd.

Beijing Huimao Cooling Equipment Co., Ltd.

Qinhuangdao Fujitaka Electronics Co., Ltd.

Key Questions Addressed in this Report

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

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

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

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

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

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Solid-State Cooling Module Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Solid-State Cooling Module by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Solid-State Cooling Module by Country/Region, 2021, 2025 & 2032
- 2.2 Solid-State Cooling Module Segment by Type
 - 2.2.1 Thermoelectric Cooling Modules
 - 2.2.2 Peltier Cooling Modules
 - 2.2.3 Micro Thermoelectric Cooling Modules
 - 2.2.4 Solid-State Cooling Module Sales by Type
 - 2.2.4.1 Global Solid-State Cooling Module Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Solid-State Cooling Module Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Solid-State Cooling Module Sale Price by Type (2021-2026)
- 2.3 Solid-State Cooling Module Segment by Module Structure
 - 2.3.1 Single-Stage Cooling Modules
 - 2.3.2 Multi-Stage Cooling Modules
 - 2.3.3 Integrated Heat Sink Cooling Modules
 - 2.3.4 Solid-State Cooling Module Sales by Module Structure
 - 2.3.4.1 Global Solid-State Cooling Module Sales Market Share by Module Structure (2021-2026)
 - 2.3.4.2 Global Solid-State Cooling Module Revenue and Market Share by Module Structure (2021-2026)

- 2.3.4.3 Global Solid-State Cooling Module Sale Price by Module Structure (2021-2026)
- 2.4 Solid-State Cooling Module Segment by Cooling Capacity
 - 2.4.1 Low Capacity??20 W?
 - 2.4.2 Medium Capacity?21–100 W?
 - 2.4.3 High Capacity??100 W?
 - 2.4.4 Solid-State Cooling Module Sales by Cooling Capacity
 - 2.4.4.1 Global Solid-State Cooling Module Sales Market Share by Cooling Capacity (2021-2026)
 - 2.4.4.2 Global Solid-State Cooling Module Revenue and Market Share by Cooling Capacity (2021-2026)
 - 2.4.4.3 Global Solid-State Cooling Module Sale Price by Cooling Capacity (2021-2026)
- 2.5 Solid-State Cooling Module Segment by Application
 - 2.5.1 Electronics Cooling
 - 2.5.2 Medical Device Temperature Control
 - 2.5.3 Optical and Laser Equipment Cooling
 - 2.5.4 Other
 - 2.5.5 Solid-State Cooling Module Sales by Application
 - 2.5.5.1 Global Solid-State Cooling Module Sale Market Share by Application (2021-2026)
 - 2.5.5.2 Global Solid-State Cooling Module Revenue and Market Share by Application (2021-2026)
 - 2.5.5.3 Global Solid-State Cooling Module Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Solid-State Cooling Module Breakdown Data by Company
 - 3.1.1 Global Solid-State Cooling Module Annual Sales by Company (2021-2026)
 - 3.1.2 Global Solid-State Cooling Module Sales Market Share by Company (2021-2026)
- 3.2 Global Solid-State Cooling Module Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Solid-State Cooling Module Revenue by Company (2021-2026)
 - 3.2.2 Global Solid-State Cooling Module Revenue Market Share by Company (2021-2026)
- 3.3 Global Solid-State Cooling Module Sale Price by Company
- 3.4 Key Manufacturers Solid-State Cooling Module Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Solid-State Cooling Module Product Location Distribution

- 3.4.2 Players Solid-State Cooling Module Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SOLID-STATE COOLING MODULE BY GEOGRAPHIC REGION

- 4.1 World Historic Solid-State Cooling Module Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Solid-State Cooling Module Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Solid-State Cooling Module Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Solid-State Cooling Module Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Solid-State Cooling Module Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Solid-State Cooling Module Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Solid-State Cooling Module Sales Growth
- 4.4 APAC Solid-State Cooling Module Sales Growth
- 4.5 Europe Solid-State Cooling Module Sales Growth
- 4.6 Middle East & Africa Solid-State Cooling Module Sales Growth

5 AMERICAS

- 5.1 Americas Solid-State Cooling Module Sales by Country
 - 5.1.1 Americas Solid-State Cooling Module Sales by Country (2021-2026)
 - 5.1.2 Americas Solid-State Cooling Module Revenue by Country (2021-2026)
- 5.2 Americas Solid-State Cooling Module Sales by Type (2021-2026)
- 5.3 Americas Solid-State Cooling Module Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

6.1 APAC Solid-State Cooling Module Sales by Region

6.1.1 APAC Solid-State Cooling Module Sales by Region (2021-2026)

6.1.2 APAC Solid-State Cooling Module Revenue by Region (2021-2026)

6.2 APAC Solid-State Cooling Module Sales by Type (2021-2026)

6.3 APAC Solid-State Cooling Module Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Solid-State Cooling Module by Country

7.1.1 Europe Solid-State Cooling Module Sales by Country (2021-2026)

7.1.2 Europe Solid-State Cooling Module Revenue by Country (2021-2026)

7.2 Europe Solid-State Cooling Module Sales by Type (2021-2026)

7.3 Europe Solid-State Cooling Module Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Solid-State Cooling Module by Country

8.1.1 Middle East & Africa Solid-State Cooling Module Sales by Country (2021-2026)

8.1.2 Middle East & Africa Solid-State Cooling Module Revenue by Country
(2021-2026)

8.2 Middle East & Africa Solid-State Cooling Module Sales by Type (2021-2026)

8.3 Middle East & Africa Solid-State Cooling Module Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Solid-State Cooling Module

10.3 Manufacturing Process Analysis of Solid-State Cooling Module

10.4 Industry Chain Structure of Solid-State Cooling Module

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Solid-State Cooling Module Distributors

11.3 Solid-State Cooling Module Customer

12 WORLD FORECAST REVIEW FOR SOLID-STATE COOLING MODULE BY GEOGRAPHIC REGION

12.1 Global Solid-State Cooling Module Market Size Forecast by Region

12.1.1 Global Solid-State Cooling Module Forecast by Region (2027-2032)

12.1.2 Global Solid-State Cooling Module Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Solid-State Cooling Module Forecast by Type (2027-2032)

12.7 Global Solid-State Cooling Module Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Ferrotec Corporation

13.1.1 Ferrotec Corporation Company Information

13.1.2 Ferrotec Corporation Solid-State Cooling Module Product Portfolios and Specifications

13.1.3 Ferrotec Corporation Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Ferrotec Corporation Main Business Overview

13.1.5 Ferrotec Corporation Latest Developments

13.2 Tark Thermal Solutions

13.2.1 Tark Thermal Solutions Company Information

13.2.2 Tark Thermal Solutions Solid-State Cooling Module Product Portfolios and Specifications

13.2.3 Tark Thermal Solutions Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Tark Thermal Solutions Main Business Overview

13.2.5 Tark Thermal Solutions Latest Developments

13.3 Coherent Corp.

13.3.1 Coherent Corp. Company Information

13.3.2 Coherent Corp. Solid-State Cooling Module Product Portfolios and Specifications

13.3.3 Coherent Corp. Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Coherent Corp. Main Business Overview

13.3.5 Coherent Corp. Latest Developments

13.4 TE Technology, Inc.

13.4.1 TE Technology, Inc. Company Information

13.4.2 TE Technology, Inc. Solid-State Cooling Module Product Portfolios and Specifications

13.4.3 TE Technology, Inc. Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 TE Technology, Inc. Main Business Overview

13.4.5 TE Technology, Inc. Latest Developments

13.5 TEC Microsystems GmbH

13.5.1 TEC Microsystems GmbH Company Information

13.5.2 TEC Microsystems GmbH Solid-State Cooling Module Product Portfolios and Specifications

13.5.3 TEC Microsystems GmbH Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 TEC Microsystems GmbH Main Business Overview

- 13.5.5 TEC Microsystems GmbH Latest Developments
- 13.6 European Thermodynamics Ltd.
 - 13.6.1 European Thermodynamics Ltd. Company Information
 - 13.6.2 European Thermodynamics Ltd. Solid-State Cooling Module Product Portfolios and Specifications
 - 13.6.3 European Thermodynamics Ltd. Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 European Thermodynamics Ltd. Main Business Overview
 - 13.6.5 European Thermodynamics Ltd. Latest Developments
- 13.7 Sheetak, Inc.
 - 13.7.1 Sheetak, Inc. Company Information
 - 13.7.2 Sheetak, Inc. Solid-State Cooling Module Product Portfolios and Specifications
 - 13.7.3 Sheetak, Inc. Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Sheetak, Inc. Main Business Overview
 - 13.7.5 Sheetak, Inc. Latest Developments
- 13.8 Phononic, Inc.
 - 13.8.1 Phononic, Inc. Company Information
 - 13.8.2 Phononic, Inc. Solid-State Cooling Module Product Portfolios and Specifications
 - 13.8.3 Phononic, Inc. Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Phononic, Inc. Main Business Overview
 - 13.8.5 Phononic, Inc. Latest Developments
- 13.9 Frore Systems, Inc.
 - 13.9.1 Frore Systems, Inc. Company Information
 - 13.9.2 Frore Systems, Inc. Solid-State Cooling Module Product Portfolios and Specifications
 - 13.9.3 Frore Systems, Inc. Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Frore Systems, Inc. Main Business Overview
 - 13.9.5 Frore Systems, Inc. Latest Developments
- 13.10 KELK Ltd.
 - 13.10.1 KELK Ltd. Company Information
 - 13.10.2 KELK Ltd. Solid-State Cooling Module Product Portfolios and Specifications
 - 13.10.3 KELK Ltd. Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 KELK Ltd. Main Business Overview
 - 13.10.5 KELK Ltd. Latest Developments
- 13.11 Kryotherm Industries

- 13.11.1 Kryotherm Industries Company Information
- 13.11.2 Kryotherm Industries Solid-State Cooling Module Product Portfolios and Specifications
- 13.11.3 Kryotherm Industries Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.11.4 Kryotherm Industries Main Business Overview
- 13.11.5 Kryotherm Industries Latest Developments
- 13.12 Guangdong Fuxin Technology Co., Ltd.
- 13.12.1 Guangdong Fuxin Technology Co., Ltd. Company Information
- 13.12.2 Guangdong Fuxin Technology Co., Ltd. Solid-State Cooling Module Product Portfolios and Specifications
- 13.12.3 Guangdong Fuxin Technology Co., Ltd. Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.12.4 Guangdong Fuxin Technology Co., Ltd. Main Business Overview
- 13.12.5 Guangdong Fuxin Technology Co., Ltd. Latest Developments
- 13.13 Beijing Huimao Cooling Equipment Co., Ltd.
- 13.13.1 Beijing Huimao Cooling Equipment Co., Ltd. Company Information
- 13.13.2 Beijing Huimao Cooling Equipment Co., Ltd. Solid-State Cooling Module Product Portfolios and Specifications
- 13.13.3 Beijing Huimao Cooling Equipment Co., Ltd. Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.13.4 Beijing Huimao Cooling Equipment Co., Ltd. Main Business Overview
- 13.13.5 Beijing Huimao Cooling Equipment Co., Ltd. Latest Developments
- 13.14 Qinhuangdao Fujitaka Electronics Co., Ltd.
- 13.14.1 Qinhuangdao Fujitaka Electronics Co., Ltd. Company Information
- 13.14.2 Qinhuangdao Fujitaka Electronics Co., Ltd. Solid-State Cooling Module Product Portfolios and Specifications
- 13.14.3 Qinhuangdao Fujitaka Electronics Co., Ltd. Solid-State Cooling Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.14.4 Qinhuangdao Fujitaka Electronics Co., Ltd. Main Business Overview
- 13.14.5 Qinhuangdao Fujitaka Electronics Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Solid-State Cooling Module Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Solid-State Cooling Module Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Thermoelectric Cooling Modules
- Table 4. Major Players of Peltier Cooling Modules
- Table 5. Major Players of Micro Thermoelectric Cooling Modules
- Table 6. Global Solid-State Cooling Module Sales by Type (2021-2026) & (K Units)
- Table 7. Global Solid-State Cooling Module Sales Market Share by Type (2021-2026)
- Table 8. Global Solid-State Cooling Module Revenue by Type (2021-2026) & (\$ million)
- Table 9. Global Solid-State Cooling Module Revenue Market Share by Type (2021-2026)
- Table 10. Global Solid-State Cooling Module Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 11. Major Players of Single-Stage Cooling Modules
- Table 12. Major Players of Multi-Stage Cooling Modules
- Table 13. Major Players of Integrated Heat Sink Cooling Modules
- Table 14. Global Solid-State Cooling Module Sales by Module Structure (2021-2026) & (K Units)
- Table 15. Global Solid-State Cooling Module Sales Market Share by Module Structure (2021-2026)
- Table 16. Global Solid-State Cooling Module Revenue by Module Structure (2021-2026) & (\$ million)
- Table 17. Global Solid-State Cooling Module Revenue Market Share by Module Structure (2021-2026)
- Table 18. Global Solid-State Cooling Module Sale Price by Module Structure (2021-2026) & (US\$/Unit)
- Table 19. Major Players of Low Capacity??20 W?
- Table 20. Major Players of Medium Capacity?21–100 W?
- Table 21. Major Players of High Capacity??100 W?
- Table 22. Global Solid-State Cooling Module Sales by Cooling Capacity (2021-2026) & (K Units)
- Table 23. Global Solid-State Cooling Module Sales Market Share by Cooling Capacity (2021-2026)
- Table 24. Global Solid-State Cooling Module Revenue by Cooling Capacity (2021-2026)

& (\$ million)

Table 25. Global Solid-State Cooling Module Revenue Market Share by Cooling Capacity (2021-2026)

Table 26. Global Solid-State Cooling Module Sale Price by Cooling Capacity (2021-2026) & (US\$/Unit)

Table 27. Global Solid-State Cooling Module Sale by Application (2021-2026) & (K Units)

Table 28. Global Solid-State Cooling Module Sale Market Share by Application (2021-2026)

Table 29. Global Solid-State Cooling Module Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Solid-State Cooling Module Revenue Market Share by Application (2021-2026)

Table 31. Global Solid-State Cooling Module Sale Price by Application (2021-2026) & (US\$/Unit)

Table 32. Global Solid-State Cooling Module Sales by Company (2021-2026) & (K Units)

Table 33. Global Solid-State Cooling Module Sales Market Share by Company (2021-2026)

Table 34. Global Solid-State Cooling Module Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Solid-State Cooling Module Revenue Market Share by Company (2021-2026)

Table 36. Global Solid-State Cooling Module Sale Price by Company (2021-2026) & (US\$/Unit)

Table 37. Key Manufacturers Solid-State Cooling Module Producing Area Distribution and Sales Area

Table 38. Players Solid-State Cooling Module Products Offered

Table 39. Solid-State Cooling Module Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Solid-State Cooling Module Sales by Geographic Region (2021-2026) & (K Units)

Table 43. Global Solid-State Cooling Module Sales Market Share Geographic Region (2021-2026)

Table 44. Global Solid-State Cooling Module Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Solid-State Cooling Module Revenue Market Share by Geographic

Region (2021-2026)

Table 46. Global Solid-State Cooling Module Sales by Country/Region (2021-2026) & (K Units)

Table 47. Global Solid-State Cooling Module Sales Market Share by Country/Region (2021-2026)

Table 48. Global Solid-State Cooling Module Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Solid-State Cooling Module Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Solid-State Cooling Module Sales by Country (2021-2026) & (K Units)

Table 51. Americas Solid-State Cooling Module Sales Market Share by Country (2021-2026)

Table 52. Americas Solid-State Cooling Module Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Solid-State Cooling Module Sales by Type (2021-2026) & (K Units)

Table 54. Americas Solid-State Cooling Module Sales by Application (2021-2026) & (K Units)

Table 55. APAC Solid-State Cooling Module Sales by Region (2021-2026) & (K Units)

Table 56. APAC Solid-State Cooling Module Sales Market Share by Region (2021-2026)

Table 57. APAC Solid-State Cooling Module Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Solid-State Cooling Module Sales by Type (2021-2026) & (K Units)

Table 59. APAC Solid-State Cooling Module Sales by Application (2021-2026) & (K Units)

Table 60. Europe Solid-State Cooling Module Sales by Country (2021-2026) & (K Units)

Table 61. Europe Solid-State Cooling Module Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Solid-State Cooling Module Sales by Type (2021-2026) & (K Units)

Table 63. Europe Solid-State Cooling Module Sales by Application (2021-2026) & (K Units)

Table 64. Middle East & Africa Solid-State Cooling Module Sales by Country (2021-2026) & (K Units)

Table 65. Middle East & Africa Solid-State Cooling Module Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Solid-State Cooling Module Sales by Type (2021-2026) & (K Units)

Table 67. Middle East & Africa Solid-State Cooling Module Sales by Application

(2021-2026) & (K Units)

Table 68. Key Market Drivers & Growth Opportunities of Solid-State Cooling Module

Table 69. Key Market Challenges & Risks of Solid-State Cooling Module

Table 70. Key Industry Trends of Solid-State Cooling Module

Table 71. Solid-State Cooling Module Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Solid-State Cooling Module Distributors List

Table 74. Solid-State Cooling Module Customer List

Table 75. Global Solid-State Cooling Module Sales Forecast by Region (2027-2032) & (K Units)

Table 76. Global Solid-State Cooling Module Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas Solid-State Cooling Module Sales Forecast by Country (2027-2032) & (K Units)

Table 78. Americas Solid-State Cooling Module Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Solid-State Cooling Module Sales Forecast by Region (2027-2032) & (K Units)

Table 80. APAC Solid-State Cooling Module Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Solid-State Cooling Module Sales Forecast by Country (2027-2032) & (K Units)

Table 82. Europe Solid-State Cooling Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Solid-State Cooling Module Sales Forecast by Country (2027-2032) & (K Units)

Table 84. Middle East & Africa Solid-State Cooling Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Solid-State Cooling Module Sales Forecast by Type (2027-2032) & (K Units)

Table 86. Global Solid-State Cooling Module Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global Solid-State Cooling Module Sales Forecast by Application (2027-2032) & (K Units)

Table 88. Global Solid-State Cooling Module Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. Ferrotec Corporation Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 90. Ferrotec Corporation Solid-State Cooling Module Product Portfolios and

Specifications

Table 91. Ferrotec Corporation Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. Ferrotec Corporation Main Business

Table 93. Ferrotec Corporation Latest Developments

Table 94. Tark Thermal Solutions Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 95. Tark Thermal Solutions Solid-State Cooling Module Product Portfolios and Specifications

Table 96. Tark Thermal Solutions Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Tark Thermal Solutions Main Business

Table 98. Tark Thermal Solutions Latest Developments

Table 99. Coherent Corp. Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 100. Coherent Corp. Solid-State Cooling Module Product Portfolios and Specifications

Table 101. Coherent Corp. Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Coherent Corp. Main Business

Table 103. Coherent Corp. Latest Developments

Table 104. TE Technology, Inc. Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 105. TE Technology, Inc. Solid-State Cooling Module Product Portfolios and Specifications

Table 106. TE Technology, Inc. Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. TE Technology, Inc. Main Business

Table 108. TE Technology, Inc. Latest Developments

Table 109. TEC Microsystems GmbH Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 110. TEC Microsystems GmbH Solid-State Cooling Module Product Portfolios and Specifications

Table 111. TEC Microsystems GmbH Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. TEC Microsystems GmbH Main Business

Table 113. TEC Microsystems GmbH Latest Developments

Table 114. European Thermodynamics Ltd. Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 115. European Thermodynamics Ltd. Solid-State Cooling Module Product Portfolios and Specifications

Table 116. European Thermodynamics Ltd. Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. European Thermodynamics Ltd. Main Business

Table 118. European Thermodynamics Ltd. Latest Developments

Table 119. Sheetak, Inc. Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 120. Sheetak, Inc. Solid-State Cooling Module Product Portfolios and Specifications

Table 121. Sheetak, Inc. Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Sheetak, Inc. Main Business

Table 123. Sheetak, Inc. Latest Developments

Table 124. Phononic, Inc. Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 125. Phononic, Inc. Solid-State Cooling Module Product Portfolios and Specifications

Table 126. Phononic, Inc. Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Phononic, Inc. Main Business

Table 128. Phononic, Inc. Latest Developments

Table 129. Frore Systems, Inc. Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 130. Frore Systems, Inc. Solid-State Cooling Module Product Portfolios and Specifications

Table 131. Frore Systems, Inc. Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Frore Systems, Inc. Main Business

Table 133. Frore Systems, Inc. Latest Developments

Table 134. KELK Ltd. Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 135. KELK Ltd. Solid-State Cooling Module Product Portfolios and Specifications

Table 136. KELK Ltd. Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. KELK Ltd. Main Business

Table 138. KELK Ltd. Latest Developments

Table 139. Kryotherm Industries Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 140. Kryotherm Industries Solid-State Cooling Module Product Portfolios and Specifications

Table 141. Kryotherm Industries Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. Kryotherm Industries Main Business

Table 143. Kryotherm Industries Latest Developments

Table 144. Guangdong Fuxin Technology Co., Ltd. Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 145. Guangdong Fuxin Technology Co., Ltd. Solid-State Cooling Module Product Portfolios and Specifications

Table 146. Guangdong Fuxin Technology Co., Ltd. Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. Guangdong Fuxin Technology Co., Ltd. Main Business

Table 148. Guangdong Fuxin Technology Co., Ltd. Latest Developments

Table 149. Beijing Huimao Cooling Equipment Co., Ltd. Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 150. Beijing Huimao Cooling Equipment Co., Ltd. Solid-State Cooling Module Product Portfolios and Specifications

Table 151. Beijing Huimao Cooling Equipment Co., Ltd. Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 152. Beijing Huimao Cooling Equipment Co., Ltd. Main Business

Table 153. Beijing Huimao Cooling Equipment Co., Ltd. Latest Developments

Table 154. Qinhuangdao Fujitaka Electronics Co., Ltd. Basic Information, Solid-State Cooling Module Manufacturing Base, Sales Area and Its Competitors

Table 155. Qinhuangdao Fujitaka Electronics Co., Ltd. Solid-State Cooling Module Product Portfolios and Specifications

Table 156. Qinhuangdao Fujitaka Electronics Co., Ltd. Solid-State Cooling Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 157. Qinhuangdao Fujitaka Electronics Co., Ltd. Main Business

Table 158. Qinhuangdao Fujitaka Electronics Co., Ltd. Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Solid-State Cooling Module
- Figure 2. Solid-State Cooling Module Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Solid-State Cooling Module Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Solid-State Cooling Module Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Solid-State Cooling Module Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Solid-State Cooling Module Sales Market Share by Country/Region (2025)
- Figure 10. Solid-State Cooling Module Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Thermoelectric Cooling Modules
- Figure 12. Product Picture of Peltier Cooling Modules
- Figure 13. Product Picture of Micro Thermoelectric Cooling Modules
- Figure 14. Global Solid-State Cooling Module Sales Market Share by Type in 2026
- Figure 15. Global Solid-State Cooling Module Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Single-Stage Cooling Modules
- Figure 17. Product Picture of Multi-Stage Cooling Modules
- Figure 18. Product Picture of Integrated Heat Sink Cooling Modules
- Figure 19. Global Solid-State Cooling Module Sales Market Share by Module Structure in 2026
- Figure 20. Global Solid-State Cooling Module Revenue Market Share by Module Structure (2021-2026)
- Figure 21. Product Picture of Low Capacity??20 W?
- Figure 22. Product Picture of Medium Capacity?21–100 W?
- Figure 23. Product Picture of High Capacity??100 W?
- Figure 24. Global Solid-State Cooling Module Sales Market Share by Cooling Capacity in 2026
- Figure 25. Global Solid-State Cooling Module Revenue Market Share by Cooling Capacity (2021-2026)
- Figure 26. Solid-State Cooling Module Consumed in Electronics Cooling
- Figure 27. Global Solid-State Cooling Module Market: Electronics Cooling (2021-2026)

& (K Units)

Figure 28. Solid-State Cooling Module Consumed in Medical Device Temperature Control

Figure 29. Global Solid-State Cooling Module Market: Medical Device Temperature Control (2021-2026) & (K Units)

Figure 30. Solid-State Cooling Module Consumed in Optical and Laser Equipment Cooling

Figure 31. Global Solid-State Cooling Module Market: Optical and Laser Equipment Cooling (2021-2026) & (K Units)

Figure 32. Solid-State Cooling Module Consumed in Other

Figure 33. Global Solid-State Cooling Module Market: Other (2021-2026) & (K Units)

Figure 34. Global Solid-State Cooling Module Sale Market Share by Application (2025)

Figure 35. Global Solid-State Cooling Module Revenue Market Share by Application in 2025

Figure 36. Solid-State Cooling Module Sales by Company in 2025 (K Units)

Figure 37. Global Solid-State Cooling Module Sales Market Share by Company in 2025

Figure 38. Solid-State Cooling Module Revenue by Company in 2025 (\$ millions)

Figure 39. Global Solid-State Cooling Module Revenue Market Share by Company in 2025

Figure 40. Global Solid-State Cooling Module Sales Market Share by Geographic Region (2021-2026)

Figure 41. Global Solid-State Cooling Module Revenue Market Share by Geographic Region in 2025

Figure 42. Americas Solid-State Cooling Module Sales 2021-2026 (K Units)

Figure 43. Americas Solid-State Cooling Module Revenue 2021-2026 (\$ millions)

Figure 44. APAC Solid-State Cooling Module Sales 2021-2026 (K Units)

Figure 45. APAC Solid-State Cooling Module Revenue 2021-2026 (\$ millions)

Figure 46. Europe Solid-State Cooling Module Sales 2021-2026 (K Units)

Figure 47. Europe Solid-State Cooling Module Revenue 2021-2026 (\$ millions)

Figure 48. Middle East & Africa Solid-State Cooling Module Sales 2021-2026 (K Units)

Figure 49. Middle East & Africa Solid-State Cooling Module Revenue 2021-2026 (\$ millions)

Figure 50. Americas Solid-State Cooling Module Sales Market Share by Country in 2025

Figure 51. Americas Solid-State Cooling Module Revenue Market Share by Country (2021-2026)

Figure 52. Americas Solid-State Cooling Module Sales Market Share by Type (2021-2026)

Figure 53. Americas Solid-State Cooling Module Sales Market Share by Application

(2021-2026)

Figure 54. United States Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 55. Canada Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 56. Mexico Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 57. Brazil Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 58. APAC Solid-State Cooling Module Sales Market Share by Region in 2025

Figure 59. APAC Solid-State Cooling Module Revenue Market Share by Region (2021-2026)

Figure 60. APAC Solid-State Cooling Module Sales Market Share by Type (2021-2026)

Figure 61. APAC Solid-State Cooling Module Sales Market Share by Application (2021-2026)

Figure 62. China Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 63. Japan Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 64. South Korea Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 65. Southeast Asia Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 66. India Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 67. Australia Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 68. China Taiwan Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 69. Europe Solid-State Cooling Module Sales Market Share by Country in 2025

Figure 70. Europe Solid-State Cooling Module Revenue Market Share by Country (2021-2026)

Figure 71. Europe Solid-State Cooling Module Sales Market Share by Type (2021-2026)

Figure 72. Europe Solid-State Cooling Module Sales Market Share by Application (2021-2026)

Figure 73. Germany Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 74. France Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 75. UK Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 76. Italy Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 77. Russia Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 78. Middle East & Africa Solid-State Cooling Module Sales Market Share by Country (2021-2026)

Figure 79. Middle East & Africa Solid-State Cooling Module Sales Market Share by

Type (2021-2026)

Figure 80. Middle East & Africa Solid-State Cooling Module Sales Market Share by Application (2021-2026)

Figure 81. Egypt Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 82. South Africa Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 83. Israel Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 84. Turkey Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 85. GCC Countries Solid-State Cooling Module Revenue Growth 2021-2026 (\$ millions)

Figure 86. Manufacturing Cost Structure Analysis of Solid-State Cooling Module in 2026

Figure 87. Manufacturing Process Analysis of Solid-State Cooling Module

Figure 88. Industry Chain Structure of Solid-State Cooling Module

Figure 89. Channels of Distribution

Figure 90. Global Solid-State Cooling Module Sales Market Forecast by Region (2027-2032)

Figure 91. Global Solid-State Cooling Module Revenue Market Share Forecast by Region (2027-2032)

Figure 92. Global Solid-State Cooling Module Sales Market Share Forecast by Type (2027-2032)

Figure 93. Global Solid-State Cooling Module Revenue Market Share Forecast by Type (2027-2032)

Figure 94. Global Solid-State Cooling Module Sales Market Share Forecast by Application (2027-2032)

Figure 95. Global Solid-State Cooling Module Revenue Market Share Forecast by Application (2027-2032)

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