

Global Solid-State Cooling Module 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 Cooling Module market size was valued at US\$ 1008 million in 2025 and is forecast to a readjusted size of US\$ 3244 million by 2032 with a CAGR of 18.1% during review period.

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.

This report is a detailed and comprehensive analysis for global Solid-State Cooling Module 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 Cooling Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Solid-State Cooling Module 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 Cooling Module 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 Cooling Module 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 Cooling Module

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Solid-State Cooling Module 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 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., etc.

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

Market Segmentation

Solid-State Cooling Module 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

Thermoelectric Cooling Modules

Peltier Cooling Modules

Micro Thermoelectric Cooling Modules

Market segment by Module Structure

Single-Stage Cooling Modules

Multi-Stage Cooling Modules

Integrated Heat Sink Cooling Modules

Market segment by Cooling Capacity

Low Capacity??20 W?

Medium Capacity?21?100 W?

High Capacity??100 W?

Market segment by Application

Electronics Cooling

Medical Device Temperature Control

Optical and Laser Equipment Cooling

Other

Major players covered

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.

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 Cooling Module product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Solid-State Cooling Module 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 Cooling Module 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 Cooling Module.

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

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