

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

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Abstracts

The global Solid-State Cooling Module market size is expected to reach \$ 3244 million by 2032, rising at a market growth of 18.1% CAGR during the forecast period (2026-2032).

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.

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

This report is a detailed and comprehensive analysis of the world market for Solid-State Cooling Module 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 Cooling Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Solid-State Cooling Module 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 Cooling Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid-State Cooling Module Market, Segmentation by Type:

Thermoelectric Cooling Modules

Peltier Cooling Modules

Micro Thermoelectric Cooling Modules

Global Solid-State Cooling Module Market, Segmentation by Module Structure:

Single-Stage Cooling Modules

Multi-Stage Cooling Modules

Integrated Heat Sink Cooling Modules

Global Solid-State Cooling Module Market, Segmentation by Cooling Capacity:

Low Capacity??20 W?

Medium Capacity?21?100 W?

High Capacity??100 W?

Global Solid-State Cooling Module Market, Segmentation by Application:

Electronics Cooling

Medical Device Temperature Control

Optical and Laser Equipment Cooling

Other

Companies Profiled:

Ferrotec Corporation

Tark Thermal Solutions

Coherent Corp.

TE Technology, Inc.

TEC Microsystems GmbH

European Thermodynamics Ltd.

Sheetak, Inc.

Phononic, Inc.

Frøre Systems, Inc.

KELK Ltd.

Kryotherm Industries

Guangdong Fuxin Technology Co., Ltd.

Beijing Huimao Cooling Equipment Co., Ltd.

Qinhuangdao Fujitaka Electronics Co., Ltd.

Key Questions Answered:

1. How big is the global Solid-State Cooling Module market?
2. What is the demand of the global Solid-State Cooling Module market?
3. What is the year over year growth of the global Solid-State Cooling Module market?
4. What is the production and production value of the global Solid-State Cooling Module market?
5. Who are the key producers in the global Solid-State Cooling Module market?
6. What are the growth factors driving the market demand?

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