

# Global Peltier Module Components 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 Peltier Module Components market size was valued at US\$ 967 million in 2025 and is forecast to a readjusted size of US\$ 1731 million by 2032 with a CAGR of 8.5% during review period.

In 2025, global Peltier Module Component production reached approximately 226573 K Pcs, with an average global market price of around 4149 USD per K Pcs.

A Peltier Module Component is a solid-state thermal management device that uses the Peltier effect to provide active cooling and precise temperature control. It is typically constructed with multiple pairs of P-type and N-type thermoelectric semiconductor elements, electrodes, ceramic substrates, and thermal interface structures. When direct current is applied, a temperature difference is generated across the module, enabling one side to absorb heat while the other side releases heat. These devices are characterized by compact size, fast response, no moving parts, refrigerant-free operation, and reversible cooling/heating capability through current direction control. They are widely used in optical communication components, lasers, semiconductor equipment, medical and laboratory instruments, automotive thermal management, consumer electronics, industrial sensors, and aerospace and defense electronics where localized cooling, stable temperature control, or thermal cycling is required.

The upstream raw materials for Peltier Module Component mainly include bismuth telluride, extruded aluminum, plastic granules, and copper-clad laminates. Major suppliers include Furukawa, Rogers, Tong Hsing, Ortech, Shanghai Vital, ABSCO Limited, RusTec, Reade, ESPI Metals, and Vital Materials. Downstream applications include consumer electronics, communications, medical, automotive, industrial, and

defense/aerospace fields. Typical customers include Gentherm, Thermo Fisher Scientific, Agilent Technologies, Coherent, Lumentum, Ericsson, Nokia, Roche, Siemens, Huawei, ZTE, Bosch, Continental, Haier, and Midea.

Single-line production capacity for Peltier Module Component ranges from 500,000 to 1,000,000 Pcs, varying depending on production scale, technology, and manufacturers. Gross profit margins are between 30% and 40%.

From a supply perspective, the global Peltier Module Component industry exhibits a competitive structure where 'Japan and Europe control high-end materials, reliability, and application solutions, while China accelerates large-scale manufacturing and domestic substitution.' Companies such as Ferrotec, KELK, Kyocera, Coherent, Tark Thermal Solutions, and Phononic have strong brand recognition and customer bases in optical communication, medical, industrial, and high-reliability temperature control applications. Meanwhile, Chinese manufacturers are expanding rapidly in standard TEC, Micro TEC, thermoelectric systems, and complete system applications, with many Chinese companies having established relatively clear local manufacturing chains. In terms of regional competition, leading customers still prioritize material consistency, cycle life, reliability verification, and batch delivery stability. Therefore, in the short term, the global high-end market will still be dominated by leading Japanese, American, and European companies, but in the medium to long term, the influence of Chinese companies in terms of cost, production capacity, and local support will continue to increase.

From a demand structure perspective, the growth of Peltier Module Component is gradually shifting from traditional consumer small appliances and general electronic cooling to higher-value precision temperature control scenarios. Fields such as optical modules, lasers, infrared detection, medical testing, semiconductor equipment, automotive batteries, and seat temperature control have higher requirements for temperature stability, size, response speed, and reliability, thus making it easier to support high-priced and customized demands. Kyocera's 2024 Peltier module launch, which raised maximum heat absorption by 21% compared to its conventional products and highlighted automotive battery and seat temperature control applications, shows that automotive thermal management is becoming a more visible growth area for the technology. At the same time, AI computing, 800G/1.6T optical networking, and rising power density in photonic and electronic systems are increasing demand for compact heat management at the device and module level. Phononic's OFC 2025 positioning around solid-state thermal solutions for next-generation AI servers, networks, and data centers, along with its statement of more than 25 million TECs deployed, indicates that

communications and data infrastructure are becoming more important to the industry's growth narrative.

From a product roadmap perspective, the focus of industry competition is shifting from simply 'cooling' to comprehensive capabilities including 'high heat flux density, low power consumption, high cycle life, long lifespan reliability, and system-level thermal management integration.' Coherent launched its CT-Series thermoelectric coolers in 2025, emphasizing their ability to support up to 100,000 thermal cycles. Positioned for mid-range reliability applications—better than conventional product lines but lower than those with extreme cycling requirements—this demonstrates that leading international companies are stratifying their products to cover different reliability and cost ranges. Meanwhile, on the materials side, development continues to focus on Bi<sub>2</sub>Te<sub>3</sub>-based thermoelectric materials, ceramic substrates, welding processes, grain consistency, and packaging reliability optimization. On the application side, the focus is shifting from individual modules to the integration of cold plates, liquid cooling, temperature controllers, and complete system components. In terms of the policy environment, China's support for strategic emerging industries, green energy technologies, electronic information, and high-end manufacturing provides a foundation for continuous R&D and capacity expansion for domestic TEC (thermoelectric cooling) companies. However, the industry still faces competition from traditional compressor refrigeration, liquid cooling, heat pipe/vapor chamber, and advanced air-cooling solutions. In conclusion, the TEC industry will not become a universal replacement for all refrigeration scenarios in the future, but it will maintain definite growth in the areas of high precision, miniaturization, low vibration, and localized active temperature control.

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

Global Peltier Module Components market size and forecasts by region and country, in

consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Pcs), 2021-2032

Global Peltier Module Components market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Pcs), 2021-2032

Global Peltier Module Components market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Pcs), 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 Peltier Module Components

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 Peltier Module Components 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, KELK Ltd.(Komatsu), Coherent Corp (formerly II-VI Incorporated), Tark Thermal Solutions (formerly Laird Thermal Systems), KYOCERA, Phononic, Guangdong Fuxin Technology, ARCTIC TEC, KJLP, Thermion Company, etc.

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

## Market Segmentation

Peltier Module Components 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

Single-stage Type

Multi-stage Type

## Market segment by Package Geometry

Standard Type

Center-hole Type

Custom-shaped

Other

## Market segment by Cooling Capacity (Qcmax)

50W Below

50-100W

100W Above

## Market segment by Application

Consumer Electronics

Communication

Medical

Automotive

Industrial

Aerospace Defense

Others

#### Major players covered

Ferrotec

KELK Ltd.(Komatsu)

Coherent Corp (formerly II-VI Incorporated)

Tark Thermal Solutions (formerly Laird Thermal Systems)

KYOCERA

Phononic

Guangdong Fuxin Technology

ARCTIC TEC

KJLP

Thermion Company

Z-MAX

Zhejiang Wangu Semiconductor

Xianghe Oriental Electronic

Thermonamic Electronics

TE Technology

P&N Technology

AISIN Corporation

Sensor Controls Co., Ltd.

Wakefield Thermal

Same Sky (formerly CUI Devices)

TEC Microsystems GmbH

Peltron GmbH

Kryotherm Industries

Crystal Ltd

Liaoning Lengxin Technology

Thermoelectric new energy technology

Jianju Technology

Bi Sheng Semiconductor

Henan Hongchang Electronic

Wei County Zhongtian Electron Stock Cooperative

Beijing Xinyu Kaimeng Electronic Technology

Beijing Huimao Refrigeration Equipment

Hangzhou Aurin Cooling Device

Henan Guanjing Semiconductor Technology

Hubei Sagreon New Energy Technology

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

Chapter 2, to profile the top manufacturers of Peltier Module Components, with price, sales quantity, revenue, and global market share of Peltier Module Components from 2021 to 2026.

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

Chapter 4, the Peltier Module Components 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 Peltier Module Components 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 Peltier Module Components.

Chapter 14 and 15, to describe Peltier Module Components sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Peltier Module Components Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Single-stage Type

1.3.3 Multi-stage Type

1.4 Market Analysis by Package Geometry

1.4.1 Overview: Global Peltier Module Components Consumption Value by Package Geometry: 2021 Versus 2025 Versus 2032

1.4.2 Standard Type

1.4.3 Center-hole Type

1.4.4 Custom-shaped

1.4.5 Other

1.5 Market Analysis by Cooling Capacity (Qcmax)

1.5.1 Overview: Global Peltier Module Components Consumption Value by Cooling Capacity (Qcmax): 2021 Versus 2025 Versus 2032

1.5.2 50W Below

1.5.3 50-100W

1.5.4 100W Above

1.6 Market Analysis by Application

1.6.1 Overview: Global Peltier Module Components Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Consumer Electronics

1.6.3 Communication

1.6.4 Medical

1.6.5 Automotive

1.6.6 Industrial

1.6.7 Aerospace Defense

1.6.8 Others

1.7 Global Peltier Module Components Market Size & Forecast

1.7.1 Global Peltier Module Components Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Peltier Module Components Sales Quantity (2021-2032)

1.7.3 Global Peltier Module Components Average Price (2021-2032)

## 2 MANUFACTURERS PROFILES

### 2.1 Ferrotec

2.1.1 Ferrotec Details

2.1.2 Ferrotec Major Business

2.1.3 Ferrotec Peltier Module Components Product and Services

2.1.4 Ferrotec Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Ferrotec Recent Developments/Updates

### 2.2 KELK Ltd.(Komatsu)

2.2.1 KELK Ltd.(Komatsu) Details

2.2.2 KELK Ltd.(Komatsu) Major Business

2.2.3 KELK Ltd.(Komatsu) Peltier Module Components Product and Services

2.2.4 KELK Ltd.(Komatsu) Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 KELK Ltd.(Komatsu) Recent Developments/Updates

### 2.3 Coherent Corp (formerly II-VI Incorporated)

2.3.1 Coherent Corp (formerly II-VI Incorporated) Details

2.3.2 Coherent Corp (formerly II-VI Incorporated) Major Business

2.3.3 Coherent Corp (formerly II-VI Incorporated) Peltier Module Components Product and Services

2.3.4 Coherent Corp (formerly II-VI Incorporated) Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Coherent Corp (formerly II-VI Incorporated) Recent Developments/Updates

### 2.4 Tark Thermal Solutions (formerly Laird Thermal Systems)

2.4.1 Tark Thermal Solutions (formerly Laird Thermal Systems) Details

2.4.2 Tark Thermal Solutions (formerly Laird Thermal Systems) Major Business

2.4.3 Tark Thermal Solutions (formerly Laird Thermal Systems) Peltier Module Components Product and Services

2.4.4 Tark Thermal Solutions (formerly Laird Thermal Systems) Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Tark Thermal Solutions (formerly Laird Thermal Systems) Recent Developments/Updates

### 2.5 KYOCERA

2.5.1 KYOCERA Details

2.5.2 KYOCERA Major Business

2.5.3 KYOCERA Peltier Module Components Product and Services

2.5.4 KYOCERA Peltier Module Components Sales Quantity, Average Price,

## Revenue, Gross Margin and Market Share (2021-2026)

### 2.5.5 KYOCERA Recent Developments/Updates

## 2.6 Phononic

### 2.6.1 Phononic Details

### 2.6.2 Phononic Major Business

### 2.6.3 Phononic Peltier Module Components Product and Services

### 2.6.4 Phononic Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.6.5 Phononic Recent Developments/Updates

## 2.7 Guangdong Fuxin Technology

### 2.7.1 Guangdong Fuxin Technology Details

### 2.7.2 Guangdong Fuxin Technology Major Business

### 2.7.3 Guangdong Fuxin Technology Peltier Module Components Product and Services

### 2.7.4 Guangdong Fuxin Technology Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.7.5 Guangdong Fuxin Technology Recent Developments/Updates

## 2.8 ARCTIC TEC

### 2.8.1 ARCTIC TEC Details

### 2.8.2 ARCTIC TEC Major Business

### 2.8.3 ARCTIC TEC Peltier Module Components Product and Services

### 2.8.4 ARCTIC TEC Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.8.5 ARCTIC TEC Recent Developments/Updates

## 2.9 KJLP

### 2.9.1 KJLP Details

### 2.9.2 KJLP Major Business

### 2.9.3 KJLP Peltier Module Components Product and Services

### 2.9.4 KJLP Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.9.5 KJLP Recent Developments/Updates

## 2.10 Thermion Company

### 2.10.1 Thermion Company Details

### 2.10.2 Thermion Company Major Business

### 2.10.3 Thermion Company Peltier Module Components Product and Services

### 2.10.4 Thermion Company Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.10.5 Thermion Company Recent Developments/Updates

## 2.11 Z-MAX

### 2.11.1 Z-MAX Details

- 2.11.2 Z-MAX Major Business
- 2.11.3 Z-MAX Peltier Module Components Product and Services
- 2.11.4 Z-MAX Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.11.5 Z-MAX Recent Developments/Updates
- 2.12 Zhejiang Wangu Semiconductor
  - 2.12.1 Zhejiang Wangu Semiconductor Details
  - 2.12.2 Zhejiang Wangu Semiconductor Major Business
  - 2.12.3 Zhejiang Wangu Semiconductor Peltier Module Components Product and Services
  - 2.12.4 Zhejiang Wangu Semiconductor Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.12.5 Zhejiang Wangu Semiconductor Recent Developments/Updates
- 2.13 Xianghe Oriental Electronic
  - 2.13.1 Xianghe Oriental Electronic Details
  - 2.13.2 Xianghe Oriental Electronic Major Business
  - 2.13.3 Xianghe Oriental Electronic Peltier Module Components Product and Services
  - 2.13.4 Xianghe Oriental Electronic Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.13.5 Xianghe Oriental Electronic Recent Developments/Updates
- 2.14 Thermonamic Electronics
  - 2.14.1 Thermonamic Electronics Details
  - 2.14.2 Thermonamic Electronics Major Business
  - 2.14.3 Thermonamic Electronics Peltier Module Components Product and Services
  - 2.14.4 Thermonamic Electronics Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.14.5 Thermonamic Electronics Recent Developments/Updates
- 2.15 TE Technology
  - 2.15.1 TE Technology Details
  - 2.15.2 TE Technology Major Business
  - 2.15.3 TE Technology Peltier Module Components Product and Services
  - 2.15.4 TE Technology Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.15.5 TE Technology Recent Developments/Updates
- 2.16 P&N Technology
  - 2.16.1 P&N Technology Details
  - 2.16.2 P&N Technology Major Business
  - 2.16.3 P&N Technology Peltier Module Components Product and Services
  - 2.16.4 P&N Technology Peltier Module Components Sales Quantity, Average Price,

## Revenue, Gross Margin and Market Share (2021-2026)

### 2.16.5 P&N Technology Recent Developments/Updates

## 2.17 AISIN Corporation

### 2.17.1 AISIN Corporation Details

### 2.17.2 AISIN Corporation Major Business

### 2.17.3 AISIN Corporation Peltier Module Components Product and Services

### 2.17.4 AISIN Corporation Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.17.5 AISIN Corporation Recent Developments/Updates

## 2.18 Sensor Controls Co., Ltd.

### 2.18.1 Sensor Controls Co., Ltd. Details

### 2.18.2 Sensor Controls Co., Ltd. Major Business

### 2.18.3 Sensor Controls Co., Ltd. Peltier Module Components Product and Services

### 2.18.4 Sensor Controls Co., Ltd. Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.18.5 Sensor Controls Co., Ltd. Recent Developments/Updates

## 2.19 Wakefield Thermal

### 2.19.1 Wakefield Thermal Details

### 2.19.2 Wakefield Thermal Major Business

### 2.19.3 Wakefield Thermal Peltier Module Components Product and Services

### 2.19.4 Wakefield Thermal Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.19.5 Wakefield Thermal Recent Developments/Updates

## 2.20 Same Sky (formerly CUI Devices)

### 2.20.1 Same Sky (formerly CUI Devices) Details

### 2.20.2 Same Sky (formerly CUI Devices) Major Business

### 2.20.3 Same Sky (formerly CUI Devices) Peltier Module Components Product and Services

### 2.20.4 Same Sky (formerly CUI Devices) Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.20.5 Same Sky (formerly CUI Devices) Recent Developments/Updates

## 2.21 TEC Microsystems GmbH

### 2.21.1 TEC Microsystems GmbH Details

### 2.21.2 TEC Microsystems GmbH Major Business

### 2.21.3 TEC Microsystems GmbH Peltier Module Components Product and Services

### 2.21.4 TEC Microsystems GmbH Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.21.5 TEC Microsystems GmbH Recent Developments/Updates

## 2.22 Peltron GmbH

- 2.22.1 Peltron GmbH Details
- 2.22.2 Peltron GmbH Major Business
- 2.22.3 Peltron GmbH Peltier Module Components Product and Services
- 2.22.4 Peltron GmbH Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.22.5 Peltron GmbH Recent Developments/Updates
- 2.23 Kryotherm Industries
  - 2.23.1 Kryotherm Industries Details
  - 2.23.2 Kryotherm Industries Major Business
  - 2.23.3 Kryotherm Industries Peltier Module Components Product and Services
  - 2.23.4 Kryotherm Industries Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.23.5 Kryotherm Industries Recent Developments/Updates
- 2.24 Crystal Ltd
  - 2.24.1 Crystal Ltd Details
  - 2.24.2 Crystal Ltd Major Business
  - 2.24.3 Crystal Ltd Peltier Module Components Product and Services
  - 2.24.4 Crystal Ltd Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.24.5 Crystal Ltd Recent Developments/Updates
- 2.25 Liaoning Lengxin Technology
  - 2.25.1 Liaoning Lengxin Technology Details
  - 2.25.2 Liaoning Lengxin Technology Major Business
  - 2.25.3 Liaoning Lengxin Technology Peltier Module Components Product and Services
  - 2.25.4 Liaoning Lengxin Technology Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.25.5 Liaoning Lengxin Technology Recent Developments/Updates
- 2.26 Thermoelectric new energy technology
  - 2.26.1 Thermoelectric new energy technology Details
  - 2.26.2 Thermoelectric new energy technology Major Business
  - 2.26.3 Thermoelectric new energy technology Peltier Module Components Product and Services
  - 2.26.4 Thermoelectric new energy technology Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.26.5 Thermoelectric new energy technology Recent Developments/Updates
- 2.27 Jianju Technology
  - 2.27.1 Jianju Technology Details
  - 2.27.2 Jianju Technology Major Business

- 2.27.3 Jianju Technology Peltier Module Components Product and Services
- 2.27.4 Jianju Technology Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.27.5 Jianju Technology Recent Developments/Updates
- 2.28 Bi Sheng Semiconductor
  - 2.28.1 Bi Sheng Semiconductor Details
  - 2.28.2 Bi Sheng Semiconductor Major Business
  - 2.28.3 Bi Sheng Semiconductor Peltier Module Components Product and Services
  - 2.28.4 Bi Sheng Semiconductor Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.28.5 Bi Sheng Semiconductor Recent Developments/Updates
- 2.29 Henan Hongchang Electronic
  - 2.29.1 Henan Hongchang Electronic Details
  - 2.29.2 Henan Hongchang Electronic Major Business
  - 2.29.3 Henan Hongchang Electronic Peltier Module Components Product and Services
  - 2.29.4 Henan Hongchang Electronic Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.29.5 Henan Hongchang Electronic Recent Developments/Updates
- 2.30 Wei County Zhongtian Electron Stock Cooperative
  - 2.30.1 Wei County Zhongtian Electron Stock Cooperative Details
  - 2.30.2 Wei County Zhongtian Electron Stock Cooperative Major Business
  - 2.30.3 Wei County Zhongtian Electron Stock Cooperative Peltier Module Components Product and Services
  - 2.30.4 Wei County Zhongtian Electron Stock Cooperative Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.30.5 Wei County Zhongtian Electron Stock Cooperative Recent Developments/Updates
- 2.31 Beijing Xinyu Kaimeng Electronic Technology
  - 2.31.1 Beijing Xinyu Kaimeng Electronic Technology Details
  - 2.31.2 Beijing Xinyu Kaimeng Electronic Technology Major Business
  - 2.31.3 Beijing Xinyu Kaimeng Electronic Technology Peltier Module Components Product and Services
  - 2.31.4 Beijing Xinyu Kaimeng Electronic Technology Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.31.5 Beijing Xinyu Kaimeng Electronic Technology Recent Developments/Updates
- 2.32 Beijing Huimao Refrigeration Equipment
  - 2.32.1 Beijing Huimao Refrigeration Equipment Details
  - 2.32.2 Beijing Huimao Refrigeration Equipment Major Business

2.32.3 Beijing Huimao Refrigeration Equipment Peltier Module Components Product and Services

2.32.4 Beijing Huimao Refrigeration Equipment Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.32.5 Beijing Huimao Refrigeration Equipment Recent Developments/Updates

2.33 Hangzhou Aurin Cooling Device

2.33.1 Hangzhou Aurin Cooling Device Details

2.33.2 Hangzhou Aurin Cooling Device Major Business

2.33.3 Hangzhou Aurin Cooling Device Peltier Module Components Product and Services

2.33.4 Hangzhou Aurin Cooling Device Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.33.5 Hangzhou Aurin Cooling Device Recent Developments/Updates

2.34 Henan Guanjing Semiconductor Technology

2.34.1 Henan Guanjing Semiconductor Technology Details

2.34.2 Henan Guanjing Semiconductor Technology Major Business

2.34.3 Henan Guanjing Semiconductor Technology Peltier Module Components Product and Services

2.34.4 Henan Guanjing Semiconductor Technology Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.34.5 Henan Guanjing Semiconductor Technology Recent Developments/Updates

2.35 Hubei Sagreon New Energy Technology

2.35.1 Hubei Sagreon New Energy Technology Details

2.35.2 Hubei Sagreon New Energy Technology Major Business

2.35.3 Hubei Sagreon New Energy Technology Peltier Module Components Product and Services

2.35.4 Hubei Sagreon New Energy Technology Peltier Module Components Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.35.5 Hubei Sagreon New Energy Technology Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: PELTIER MODULE COMPONENTS BY MANUFACTURER**

3.1 Global Peltier Module Components Sales Quantity by Manufacturer (2021-2026)

3.2 Global Peltier Module Components Revenue by Manufacturer (2021-2026)

3.3 Global Peltier Module Components Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Peltier Module Components by Manufacturer Revenue (\$MM) and Market Share (%): 2025

- 3.4.2 Top 3 Peltier Module Components Manufacturer Market Share in 2025
- 3.4.3 Top 6 Peltier Module Components Manufacturer Market Share in 2025
- 3.5 Peltier Module Components Market: Overall Company Footprint Analysis
  - 3.5.1 Peltier Module Components Market: Region Footprint
  - 3.5.2 Peltier Module Components Market: Company Product Type Footprint
  - 3.5.3 Peltier Module Components Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Peltier Module Components Market Size by Region
  - 4.1.1 Global Peltier Module Components Sales Quantity by Region (2021-2032)
  - 4.1.2 Global Peltier Module Components Consumption Value by Region (2021-2032)
  - 4.1.3 Global Peltier Module Components Average Price by Region (2021-2032)
- 4.2 North America Peltier Module Components Consumption Value (2021-2032)
- 4.3 Europe Peltier Module Components Consumption Value (2021-2032)
- 4.4 Asia-Pacific Peltier Module Components Consumption Value (2021-2032)
- 4.5 South America Peltier Module Components Consumption Value (2021-2032)
- 4.6 Middle East & Africa Peltier Module Components Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Peltier Module Components Sales Quantity by Type (2021-2032)
- 5.2 Global Peltier Module Components Consumption Value by Type (2021-2032)
- 5.3 Global Peltier Module Components Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Peltier Module Components Sales Quantity by Application (2021-2032)
- 6.2 Global Peltier Module Components Consumption Value by Application (2021-2032)
- 6.3 Global Peltier Module Components Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

- 7.1 North America Peltier Module Components Sales Quantity by Type (2021-2032)
- 7.2 North America Peltier Module Components Sales Quantity by Application (2021-2032)
- 7.3 North America Peltier Module Components Market Size by Country

7.3.1 North America Peltier Module Components Sales Quantity by Country (2021-2032)

7.3.2 North America Peltier Module Components Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe Peltier Module Components Sales Quantity by Type (2021-2032)

8.2 Europe Peltier Module Components Sales Quantity by Application (2021-2032)

8.3 Europe Peltier Module Components Market Size by Country

8.3.1 Europe Peltier Module Components Sales Quantity by Country (2021-2032)

8.3.2 Europe Peltier Module Components Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Peltier Module Components Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Peltier Module Components Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Peltier Module Components Market Size by Region

9.3.1 Asia-Pacific Peltier Module Components Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Peltier Module Components Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

10.1 South America Peltier Module Components Sales Quantity by Type (2021-2032)

10.2 South America Peltier Module Components Sales Quantity by Application (2021-2032)

10.3 South America Peltier Module Components Market Size by Country

10.3.1 South America Peltier Module Components Sales Quantity by Country (2021-2032)

10.3.2 South America Peltier Module Components Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Peltier Module Components Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Peltier Module Components Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Peltier Module Components Market Size by Country

11.3.1 Middle East & Africa Peltier Module Components Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Peltier Module Components Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

12.1 Peltier Module Components Market Drivers

12.2 Peltier Module Components Market Restraints

12.3 Peltier Module Components Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Peltier Module Components and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Peltier Module Components
- 13.3 Peltier Module Components Production Process
- 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Peltier Module Components Typical Distributors
- 14.3 Peltier Module Components Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Peltier Module Components Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Peltier Module Components Consumption Value by Package Geometry, (USD Million), 2021 & 2025 & 2032

Table 3. Global Peltier Module Components Consumption Value by Cooling Capacity (Qcmax), (USD Million), 2021 & 2025 & 2032

Table 4. Global Peltier Module Components Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Ferrotec Basic Information, Manufacturing Base and Competitors

Table 6. Ferrotec Major Business

Table 7. Ferrotec Peltier Module Components Product and Services

Table 8. Ferrotec Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Ferrotec Recent Developments/Updates

Table 10. KELK Ltd.(Komatsu) Basic Information, Manufacturing Base and Competitors

Table 11. KELK Ltd.(Komatsu) Major Business

Table 12. KELK Ltd.(Komatsu) Peltier Module Components Product and Services

Table 13. KELK Ltd.(Komatsu) Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. KELK Ltd.(Komatsu) Recent Developments/Updates

Table 15. Coherent Corp (formerly II-VI Incorporated) Basic Information, Manufacturing Base and Competitors

Table 16. Coherent Corp (formerly II-VI Incorporated) Major Business

Table 17. Coherent Corp (formerly II-VI Incorporated) Peltier Module Components Product and Services

Table 18. Coherent Corp (formerly II-VI Incorporated) Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Coherent Corp (formerly II-VI Incorporated) Recent Developments/Updates

Table 20. Tark Thermal Solutions (formerly Laird Thermal Systems) Basic Information, Manufacturing Base and Competitors

Table 21. Tark Thermal Solutions (formerly Laird Thermal Systems) Major Business

Table 22. Tark Thermal Solutions (formerly Laird Thermal Systems) Peltier Module Components Product and Services

- Table 23. Tark Thermal Solutions (formerly Laird Thermal Systems) Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 24. Tark Thermal Solutions (formerly Laird Thermal Systems) Recent Developments/Updates
- Table 25. KYOCERA Basic Information, Manufacturing Base and Competitors
- Table 26. KYOCERA Major Business
- Table 27. KYOCERA Peltier Module Components Product and Services
- Table 28. KYOCERA Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. KYOCERA Recent Developments/Updates
- Table 30. Phononic Basic Information, Manufacturing Base and Competitors
- Table 31. Phononic Major Business
- Table 32. Phononic Peltier Module Components Product and Services
- Table 33. Phononic Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. Phononic Recent Developments/Updates
- Table 35. Guangdong Fuxin Technology Basic Information, Manufacturing Base and Competitors
- Table 36. Guangdong Fuxin Technology Major Business
- Table 37. Guangdong Fuxin Technology Peltier Module Components Product and Services
- Table 38. Guangdong Fuxin Technology Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. Guangdong Fuxin Technology Recent Developments/Updates
- Table 40. ARCTIC TEC Basic Information, Manufacturing Base and Competitors
- Table 41. ARCTIC TEC Major Business
- Table 42. ARCTIC TEC Peltier Module Components Product and Services
- Table 43. ARCTIC TEC Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. ARCTIC TEC Recent Developments/Updates
- Table 45. KJLP Basic Information, Manufacturing Base and Competitors
- Table 46. KJLP Major Business
- Table 47. KJLP Peltier Module Components Product and Services
- Table 48. KJLP Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. KJLP Recent Developments/Updates
- Table 50. Thermion Company Basic Information, Manufacturing Base and Competitors

Table 51. Thermion Company Major Business

Table 52. Thermion Company Peltier Module Components Product and Services

Table 53. Thermion Company Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Thermion Company Recent Developments/Updates

Table 55. Z-MAX Basic Information, Manufacturing Base and Competitors

Table 56. Z-MAX Major Business

Table 57. Z-MAX Peltier Module Components Product and Services

Table 58. Z-MAX Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Z-MAX Recent Developments/Updates

Table 60. Zhejiang Wangu Semiconductor Basic Information, Manufacturing Base and Competitors

Table 61. Zhejiang Wangu Semiconductor Major Business

Table 62. Zhejiang Wangu Semiconductor Peltier Module Components Product and Services

Table 63. Zhejiang Wangu Semiconductor Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Zhejiang Wangu Semiconductor Recent Developments/Updates

Table 65. Xianghe Oriental Electronic Basic Information, Manufacturing Base and Competitors

Table 66. Xianghe Oriental Electronic Major Business

Table 67. Xianghe Oriental Electronic Peltier Module Components Product and Services

Table 68. Xianghe Oriental Electronic Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Xianghe Oriental Electronic Recent Developments/Updates

Table 70. Thermonamic Electronics Basic Information, Manufacturing Base and Competitors

Table 71. Thermonamic Electronics Major Business

Table 72. Thermonamic Electronics Peltier Module Components Product and Services

Table 73. Thermonamic Electronics Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Thermonamic Electronics Recent Developments/Updates

Table 75. TE Technology Basic Information, Manufacturing Base and Competitors

Table 76. TE Technology Major Business

- Table 77. TE Technology Peltier Module Components Product and Services
- Table 78. TE Technology Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. TE Technology Recent Developments/Updates
- Table 80. P&N Technology Basic Information, Manufacturing Base and Competitors
- Table 81. P&N Technology Major Business
- Table 82. P&N Technology Peltier Module Components Product and Services
- Table 83. P&N Technology Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 84. P&N Technology Recent Developments/Updates
- Table 85. AISIN Corporation Basic Information, Manufacturing Base and Competitors
- Table 86. AISIN Corporation Major Business
- Table 87. AISIN Corporation Peltier Module Components Product and Services
- Table 88. AISIN Corporation Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 89. AISIN Corporation Recent Developments/Updates
- Table 90. Sensor Controls Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 91. Sensor Controls Co., Ltd. Major Business
- Table 92. Sensor Controls Co., Ltd. Peltier Module Components Product and Services
- Table 93. Sensor Controls Co., Ltd. Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 94. Sensor Controls Co., Ltd. Recent Developments/Updates
- Table 95. Wakefield Thermal Basic Information, Manufacturing Base and Competitors
- Table 96. Wakefield Thermal Major Business
- Table 97. Wakefield Thermal Peltier Module Components Product and Services
- Table 98. Wakefield Thermal Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 99. Wakefield Thermal Recent Developments/Updates
- Table 100. Same Sky (formerly CUI Devices) Basic Information, Manufacturing Base and Competitors
- Table 101. Same Sky (formerly CUI Devices) Major Business
- Table 102. Same Sky (formerly CUI Devices) Peltier Module Components Product and Services
- Table 103. Same Sky (formerly CUI Devices) Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and

Market Share (2021-2026)

Table 104. Same Sky (formerly CUI Devices) Recent Developments/Updates

Table 105. TEC Microsystems GmbH Basic Information, Manufacturing Base and Competitors

Table 106. TEC Microsystems GmbH Major Business

Table 107. TEC Microsystems GmbH Peltier Module Components Product and Services

Table 108. TEC Microsystems GmbH Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. TEC Microsystems GmbH Recent Developments/Updates

Table 110. Peltron GmbH Basic Information, Manufacturing Base and Competitors

Table 111. Peltron GmbH Major Business

Table 112. Peltron GmbH Peltier Module Components Product and Services

Table 113. Peltron GmbH Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Peltron GmbH Recent Developments/Updates

Table 115. Kryotherm Industries Basic Information, Manufacturing Base and Competitors

Table 116. Kryotherm Industries Major Business

Table 117. Kryotherm Industries Peltier Module Components Product and Services

Table 118. Kryotherm Industries Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 119. Kryotherm Industries Recent Developments/Updates

Table 120. Crystal Ltd Basic Information, Manufacturing Base and Competitors

Table 121. Crystal Ltd Major Business

Table 122. Crystal Ltd Peltier Module Components Product and Services

Table 123. Crystal Ltd Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 124. Crystal Ltd Recent Developments/Updates

Table 125. Liaoning Lengxin Technology Basic Information, Manufacturing Base and Competitors

Table 126. Liaoning Lengxin Technology Major Business

Table 127. Liaoning Lengxin Technology Peltier Module Components Product and Services

Table 128. Liaoning Lengxin Technology Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 129. Liaoning Lengxin Technology Recent Developments/Updates

Table 130. Thermoelectric new energy technology Basic Information, Manufacturing Base and Competitors

Table 131. Thermoelectric new energy technology Major Business

Table 132. Thermoelectric new energy technology Peltier Module Components Product and Services

Table 133. Thermoelectric new energy technology Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Thermoelectric new energy technology Recent Developments/Updates

Table 135. Jianju Technology Basic Information, Manufacturing Base and Competitors

Table 136. Jianju Technology Major Business

Table 137. Jianju Technology Peltier Module Components Product and Services

Table 138. Jianju Technology Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Jianju Technology Recent Developments/Updates

Table 140. Bi Sheng Semiconductor Basic Information, Manufacturing Base and Competitors

Table 141. Bi Sheng Semiconductor Major Business

Table 142. Bi Sheng Semiconductor Peltier Module Components Product and Services

Table 143. Bi Sheng Semiconductor Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Bi Sheng Semiconductor Recent Developments/Updates

Table 145. Henan Hongchang Electronic Basic Information, Manufacturing Base and Competitors

Table 146. Henan Hongchang Electronic Major Business

Table 147. Henan Hongchang Electronic Peltier Module Components Product and Services

Table 148. Henan Hongchang Electronic Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 149. Henan Hongchang Electronic Recent Developments/Updates

Table 150. Wei County Zhongtian Electron Stock Cooperative Basic Information, Manufacturing Base and Competitors

Table 151. Wei County Zhongtian Electron Stock Cooperative Major Business

Table 152. Wei County Zhongtian Electron Stock Cooperative Peltier Module Components Product and Services

Table 153. Wei County Zhongtian Electron Stock Cooperative Peltier Module

Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 154. Wei County Zhongtian Electron Stock Cooperative Recent Developments/Updates

Table 155. Beijing Xinyu Kaimeng Electronic Technology Basic Information, Manufacturing Base and Competitors

Table 156. Beijing Xinyu Kaimeng Electronic Technology Major Business

Table 157. Beijing Xinyu Kaimeng Electronic Technology Peltier Module Components Product and Services

Table 158. Beijing Xinyu Kaimeng Electronic Technology Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 159. Beijing Xinyu Kaimeng Electronic Technology Recent Developments/Updates

Table 160. Beijing Huimao Refrigeration Equipment Basic Information, Manufacturing Base and Competitors

Table 161. Beijing Huimao Refrigeration Equipment Major Business

Table 162. Beijing Huimao Refrigeration Equipment Peltier Module Components Product and Services

Table 163. Beijing Huimao Refrigeration Equipment Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 164. Beijing Huimao Refrigeration Equipment Recent Developments/Updates

Table 165. Hangzhou Aurin Cooling Device Basic Information, Manufacturing Base and Competitors

Table 166. Hangzhou Aurin Cooling Device Major Business

Table 167. Hangzhou Aurin Cooling Device Peltier Module Components Product and Services

Table 168. Hangzhou Aurin Cooling Device Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Hangzhou Aurin Cooling Device Recent Developments/Updates

Table 170. Henan Guanjing Semiconductor Technology Basic Information, Manufacturing Base and Competitors

Table 171. Henan Guanjing Semiconductor Technology Major Business

Table 172. Henan Guanjing Semiconductor Technology Peltier Module Components Product and Services

Table 173. Henan Guanjing Semiconductor Technology Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin

and Market Share (2021-2026)

Table 174. Henan Guanjing Semiconductor Technology Recent Developments/Updates

Table 175. Hubei Sagreon New Energy Technology Basic Information, Manufacturing Base and Competitors

Table 176. Hubei Sagreon New Energy Technology Major Business

Table 177. Hubei Sagreon New Energy Technology Peltier Module Components Product and Services

Table 178. Hubei Sagreon New Energy Technology Peltier Module Components Sales Quantity (Units), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 179. Hubei Sagreon New Energy Technology Recent Developments/Updates

Table 180. Global Peltier Module Components Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 181. Global Peltier Module Components Revenue by Manufacturer (2021-2026) & (USD Million)

Table 182. Global Peltier Module Components Average Price by Manufacturer (2021-2026) & (US\$/Pcs)

Table 183. Market Position of Manufacturers in Peltier Module Components, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 184. Head Office and Peltier Module Components Production Site of Key Manufacturer

Table 185. Peltier Module Components Market: Company Product Type Footprint

Table 186. Peltier Module Components Market: Company Product Application Footprint

Table 187. Peltier Module Components New Market Entrants and Barriers to Market Entry

Table 188. Peltier Module Components Mergers, Acquisition, Agreements, and Collaborations

Table 189. Global Peltier Module Components Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 190. Global Peltier Module Components Sales Quantity by Region (2021-2026) & (Units)

Table 191. Global Peltier Module Components Sales Quantity by Region (2027-2032) & (Units)

Table 192. Global Peltier Module Components Consumption Value by Region (2021-2026) & (USD Million)

Table 193. Global Peltier Module Components Consumption Value by Region (2027-2032) & (USD Million)

Table 194. Global Peltier Module Components Average Price by Region (2021-2026) & (US\$/Pcs)

Table 195. Global Peltier Module Components Average Price by Region (2027-2032) & (US\$/Pcs)

Table 196. Global Peltier Module Components Sales Quantity by Type (2021-2026) & (Units)

Table 197. Global Peltier Module Components Sales Quantity by Type (2027-2032) & (Units)

Table 198. Global Peltier Module Components Consumption Value by Type (2021-2026) & (USD Million)

Table 199. Global Peltier Module Components Consumption Value by Type (2027-2032) & (USD Million)

Table 200. Global Peltier Module Components Average Price by Type (2021-2026) & (US\$/Pcs)

Table 201. Global Peltier Module Components Average Price by Type (2027-2032) & (US\$/Pcs)

Table 202. Global Peltier Module Components Sales Quantity by Application (2021-2026) & (Units)

Table 203. Global Peltier Module Components Sales Quantity by Application (2027-2032) & (Units)

Table 204. Global Peltier Module Components Consumption Value by Application (2021-2026) & (USD Million)

Table 205. Global Peltier Module Components Consumption Value by Application (2027-2032) & (USD Million)

Table 206. Global Peltier Module Components Average Price by Application (2021-2026) & (US\$/Pcs)

Table 207. Global Peltier Module Components Average Price by Application (2027-2032) & (US\$/Pcs)

Table 208. North America Peltier Module Components Sales Quantity by Type (2021-2026) & (Units)

Table 209. North America Peltier Module Components Sales Quantity by Type (2027-2032) & (Units)

Table 210. North America Peltier Module Components Sales Quantity by Application (2021-2026) & (Units)

Table 211. North America Peltier Module Components Sales Quantity by Application (2027-2032) & (Units)

Table 212. North America Peltier Module Components Sales Quantity by Country (2021-2026) & (Units)

Table 213. North America Peltier Module Components Sales Quantity by Country (2027-2032) & (Units)

Table 214. North America Peltier Module Components Consumption Value by Country

(2021-2026) & (USD Million)

Table 215. North America Peltier Module Components Consumption Value by Country (2027-2032) & (USD Million)

Table 216. Europe Peltier Module Components Sales Quantity by Type (2021-2026) & (Units)

Table 217. Europe Peltier Module Components Sales Quantity by Type (2027-2032) & (Units)

Table 218. Europe Peltier Module Components Sales Quantity by Application (2021-2026) & (Units)

Table 219. Europe Peltier Module Components Sales Quantity by Application (2027-2032) & (Units)

Table 220. Europe Peltier Module Components Sales Quantity by Country (2021-2026) & (Units)

Table 221. Europe Peltier Module Components Sales Quantity by Country (2027-2032) & (Units)

Table 222. Europe Peltier Module Components Consumption Value by Country (2021-2026) & (USD Million)

Table 223. Europe Peltier Module Components Consumption Value by Country (2027-2032) & (USD Million)

Table 224. Asia-Pacific Peltier Module Components Sales Quantity by Type (2021-2026) & (Units)

Table 225. Asia-Pacific Peltier Module Components Sales Quantity by Type (2027-2032) & (Units)

Table 226. Asia-Pacific Peltier Module Components Sales Quantity by Application (2021-2026) & (Units)

Table 227. Asia-Pacific Peltier Module Components Sales Quantity by Application (2027-2032) & (Units)

Table 228. Asia-Pacific Peltier Module Components Sales Quantity by Region (2021-2026) & (Units)

Table 229. Asia-Pacific Peltier Module Components Sales Quantity by Region (2027-2032) & (Units)

Table 230. Asia-Pacific Peltier Module Components Consumption Value by Region (2021-2026) & (USD Million)

Table 231. Asia-Pacific Peltier Module Components Consumption Value by Region (2027-2032) & (USD Million)

Table 232. South America Peltier Module Components Sales Quantity by Type (2021-2026) & (Units)

Table 233. South America Peltier Module Components Sales Quantity by Type (2027-2032) & (Units)

Table 234. South America Peltier Module Components Sales Quantity by Application (2021-2026) & (Units)

Table 235. South America Peltier Module Components Sales Quantity by Application (2027-2032) & (Units)

Table 236. South America Peltier Module Components Sales Quantity by Country (2021-2026) & (Units)

Table 237. South America Peltier Module Components Sales Quantity by Country (2027-2032) & (Units)

Table 238. South America Peltier Module Components Consumption Value by Country (2021-2026) & (USD Million)

Table 239. South America Peltier Module Components Consumption Value by Country (2027-2032) & (USD Million)

Table 240. Middle East & Africa Peltier Module Components Sales Quantity by Type (2021-2026) & (Units)

Table 241. Middle East & Africa Peltier Module Components Sales Quantity by Type (2027-2032) & (Units)

Table 242. Middle East & Africa Peltier Module Components Sales Quantity by Application (2021-2026) & (Units)

Table 243. Middle East & Africa Peltier Module Components Sales Quantity by Application (2027-2032) & (Units)

Table 244. Middle East & Africa Peltier Module Components Sales Quantity by Country (2021-2026) & (Units)

Table 245. Middle East & Africa Peltier Module Components Sales Quantity by Country (2027-2032) & (Units)

Table 246. Middle East & Africa Peltier Module Components Consumption Value by Country (2021-2026) & (USD Million)

Table 247. Middle East & Africa Peltier Module Components Consumption Value by Country (2027-2032) & (USD Million)

Table 248. Peltier Module Components Raw Material

Table 249. Key Manufacturers of Peltier Module Components Raw Materials

Table 250. Peltier Module Components Typical Distributors

Table 251. Peltier Module Components Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Peltier Module Components Picture
- Figure 2. Global Peltier Module Components Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Peltier Module Components Revenue Market Share by Type in 2025
- Figure 4. Single-stage Type Examples
- Figure 5. Multi-stage Type Examples
- Figure 6. Global Peltier Module Components Revenue by Package Geometry, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Peltier Module Components Revenue Market Share by Package Geometry in 2025
- Figure 8. Standard Type Examples
- Figure 9. Center-hole Type Examples
- Figure 10. Custom-shaped Examples
- Figure 11. Other Examples
- Figure 12. Global Peltier Module Components Revenue by Cooling Capacity (Qcmax), (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Peltier Module Components Revenue Market Share by Cooling Capacity (Qcmax) in 2025
- Figure 14. 50W Below Examples
- Figure 15. 50-100W Examples
- Figure 16. 100W Above Examples
- Figure 17. Global Peltier Module Components Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global Peltier Module Components Revenue Market Share by Application in 2025
- Figure 19. Consumer Electronics Examples
- Figure 20. Communication Examples
- Figure 21. Medical Examples
- Figure 22. Automotive Examples
- Figure 23. Industrial Examples
- Figure 24. Aerospace Defense Examples
- Figure 25. Others Examples
- Figure 26. Global Peltier Module Components Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 27. Global Peltier Module Components Consumption Value and Forecast

(2021-2032) & (USD Million)

Figure 28. Global Peltier Module Components Sales Quantity (2021-2032) & (Units)

Figure 29. Global Peltier Module Components Price (2021-2032) & (US\$/Pcs)

Figure 30. Global Peltier Module Components Sales Quantity Market Share by Manufacturer in 2025

Figure 31. Global Peltier Module Components Revenue Market Share by Manufacturer in 2025

Figure 32. Producer Shipments of Peltier Module Components by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 33. Top 3 Peltier Module Components Manufacturer (Revenue) Market Share in 2025

Figure 34. Top 6 Peltier Module Components Manufacturer (Revenue) Market Share in 2025

Figure 35. Global Peltier Module Components Sales Quantity Market Share by Region (2021-2032)

Figure 36. Global Peltier Module Components Consumption Value Market Share by Region (2021-2032)

Figure 37. North America Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 38. Europe Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 39. Asia-Pacific Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 40. South America Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 41. Middle East & Africa Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 42. Global Peltier Module Components Sales Quantity Market Share by Type (2021-2032)

Figure 43. Global Peltier Module Components Consumption Value Market Share by Type (2021-2032)

Figure 44. Global Peltier Module Components Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 45. Global Peltier Module Components Sales Quantity Market Share by Application (2021-2032)

Figure 46. Global Peltier Module Components Revenue Market Share by Application (2021-2032)

Figure 47. Global Peltier Module Components Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 48. North America Peltier Module Components Sales Quantity Market Share by Type (2021-2032)

Figure 49. North America Peltier Module Components Sales Quantity Market Share by Application (2021-2032)

Figure 50. North America Peltier Module Components Sales Quantity Market Share by Country (2021-2032)

Figure 51. North America Peltier Module Components Consumption Value Market Share by Country (2021-2032)

Figure 52. United States Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 53. Canada Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 54. Mexico Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 55. Europe Peltier Module Components Sales Quantity Market Share by Type (2021-2032)

Figure 56. Europe Peltier Module Components Sales Quantity Market Share by Application (2021-2032)

Figure 57. Europe Peltier Module Components Sales Quantity Market Share by Country (2021-2032)

Figure 58. Europe Peltier Module Components Consumption Value Market Share by Country (2021-2032)

Figure 59. Germany Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 60. France Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 61. United Kingdom Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 62. Russia Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 63. Italy Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 64. Asia-Pacific Peltier Module Components Sales Quantity Market Share by Type (2021-2032)

Figure 65. Asia-Pacific Peltier Module Components Sales Quantity Market Share by Application (2021-2032)

Figure 66. Asia-Pacific Peltier Module Components Sales Quantity Market Share by Region (2021-2032)

Figure 67. Asia-Pacific Peltier Module Components Consumption Value Market Share

by Region (2021-2032)

Figure 68. China Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 69. Japan Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 70. South Korea Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 71. India Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 72. Southeast Asia Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 73. Australia Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 74. South America Peltier Module Components Sales Quantity Market Share by Type (2021-2032)

Figure 75. South America Peltier Module Components Sales Quantity Market Share by Application (2021-2032)

Figure 76. South America Peltier Module Components Sales Quantity Market Share by Country (2021-2032)

Figure 77. South America Peltier Module Components Consumption Value Market Share by Country (2021-2032)

Figure 78. Brazil Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 79. Argentina Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 80. Middle East & Africa Peltier Module Components Sales Quantity Market Share by Type (2021-2032)

Figure 81. Middle East & Africa Peltier Module Components Sales Quantity Market Share by Application (2021-2032)

Figure 82. Middle East & Africa Peltier Module Components Sales Quantity Market Share by Country (2021-2032)

Figure 83. Middle East & Africa Peltier Module Components Consumption Value Market Share by Country (2021-2032)

Figure 84. Turkey Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 85. Egypt Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 86. Saudi Arabia Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 87. South Africa Peltier Module Components Consumption Value (2021-2032) & (USD Million)

Figure 88. Peltier Module Components Market Drivers

Figure 89. Peltier Module Components Market Restraints

Figure 90. Peltier Module Components Market Trends

Figure 91. Porters Five Forces Analysis

Figure 92. Manufacturing Cost Structure Analysis of Peltier Module Components in 2025

Figure 93. Manufacturing Process Analysis of Peltier Module Components

Figure 94. Peltier Module Components Industrial Chain

Figure 95. Sales Channel: Direct to End-User vs Distributors

Figure 96. Direct Channel Pros & Cons

Figure 97. Indirect Channel Pros & Cons

Figure 98. Methodology

Figure 99. Research Process and Data Source

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