

Global Peltier Device Market Growth 2026-2032

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Abstracts

The global Peltier Device market size is predicted to grow from US\$ 920 million in 2025 to US\$ 1695 million in 2032; it is expected to grow at a CAGR of 9.0% from 2026 to 2032.

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

A Peltier Device 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 Device 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 Device 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 Device 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 Device 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 Bi₂Te₃-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.

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

This Insight Report provides a comprehensive analysis of the global Peltier Device 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 Peltier Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Peltier Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Peltier Device 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 Peltier Device.

This report presents a comprehensive overview, market shares, and growth opportunities of Peltier Device market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Multi-Stage

Single-Stage

Segmentation by Package Geometry:

Standard Type

Center-hole Type

Custom-shaped

Other

Segmentation by Cooling Capacity (Qcmax):

50W Below

50-100W

100W Above

Segmentation by Application:

Consumer Electronics

Communication

Medical

Automotive

Industrial

Aerospace Defense

Others

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

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Peltier Device market?

What factors are driving Peltier Device market growth, globally and by region?

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

How do Peltier Device market opportunities vary by end market size?

How does Peltier Device 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 Peltier Device Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Peltier Device by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Peltier Device by Country/Region, 2021, 2025 & 2032
- 2.2 Peltier Device Segment by Type
 - 2.2.1 Multi-Stage
 - 2.2.2 Single-Stage
 - 2.2.3 Peltier Device Sales by Type
 - 2.2.3.1 Global Peltier Device Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Peltier Device Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Peltier Device Sale Price by Type (2021-2026)
- 2.3 Peltier Device Segment by Package Geometry
 - 2.3.1 Standard Type
 - 2.3.2 Center-hole Type
 - 2.3.3 Custom-shaped
 - 2.3.4 Other
 - 2.3.5 Peltier Device Sales by Package Geometry
 - 2.3.5.1 Global Peltier Device Sales Market Share by Package Geometry (2021-2026)
 - 2.3.5.2 Global Peltier Device Revenue and Market Share by Package Geometry (2021-2026)
 - 2.3.5.3 Global Peltier Device Sale Price by Package Geometry (2021-2026)
- 2.4 Peltier Device Segment by Cooling Capacity (Qcmax)

2.4.1 50W Below

2.4.2 50-100W

2.4.3 100W Above

2.4.4 Peltier Device Sales by Cooling Capacity (Qcmax)

2.4.4.1 Global Peltier Device Sales Market Share by Cooling Capacity (Qcmax)
(2021-2026)

2.4.4.2 Global Peltier Device Revenue and Market Share by Cooling Capacity
(Qcmax) (2021-2026)

2.4.4.3 Global Peltier Device Sale Price by Cooling Capacity (Qcmax) (2021-2026)

2.5 Peltier Device Segment by Application

2.5.1 Consumer Electronics

2.5.2 Communication

2.5.3 Medical

2.5.4 Automotive

2.5.5 Industrial

2.5.6 Aerospace Defense

2.5.7 Others

2.5.8 Peltier Device Sales by Application

2.5.8.1 Global Peltier Device Sale Market Share by Application (2021-2026)

2.5.8.2 Global Peltier Device Revenue and Market Share by Application (2021-2026)

2.5.8.3 Global Peltier Device Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Peltier Device Breakdown Data by Company

3.1.1 Global Peltier Device Annual Sales by Company (2021-2026)

3.1.2 Global Peltier Device Sales Market Share by Company (2021-2026)

3.2 Global Peltier Device Annual Revenue by Company (2021-2026)

3.2.1 Global Peltier Device Revenue by Company (2021-2026)

3.2.2 Global Peltier Device Revenue Market Share by Company (2021-2026)

3.3 Global Peltier Device Sale Price by Company

3.4 Key Manufacturers Peltier Device Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Peltier Device Product Location Distribution

3.4.2 Players Peltier Device 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 PELTIER DEVICE BY GEOGRAPHIC REGION

4.1 World Historic Peltier Device Market Size by Geographic Region (2021-2026)

4.1.1 Global Peltier Device Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Peltier Device Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Peltier Device Market Size by Country/Region (2021-2026)

4.2.1 Global Peltier Device Annual Sales by Country/Region (2021-2026)

4.2.2 Global Peltier Device Annual Revenue by Country/Region (2021-2026)

4.3 Americas Peltier Device Sales Growth

4.4 APAC Peltier Device Sales Growth

4.5 Europe Peltier Device Sales Growth

4.6 Middle East & Africa Peltier Device Sales Growth

5 AMERICAS

5.1 Americas Peltier Device Sales by Country

5.1.1 Americas Peltier Device Sales by Country (2021-2026)

5.1.2 Americas Peltier Device Revenue by Country (2021-2026)

5.2 Americas Peltier Device Sales by Type (2021-2026)

5.3 Americas Peltier Device Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Peltier Device Sales by Region

6.1.1 APAC Peltier Device Sales by Region (2021-2026)

6.1.2 APAC Peltier Device Revenue by Region (2021-2026)

6.2 APAC Peltier Device Sales by Type (2021-2026)

6.3 APAC Peltier Device 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 Peltier Device by Country

7.1.1 Europe Peltier Device Sales by Country (2021-2026)

7.1.2 Europe Peltier Device Revenue by Country (2021-2026)

7.2 Europe Peltier Device Sales by Type (2021-2026)

7.3 Europe Peltier Device 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 Peltier Device by Country

8.1.1 Middle East & Africa Peltier Device Sales by Country (2021-2026)

8.1.2 Middle East & Africa Peltier Device Revenue by Country (2021-2026)

8.2 Middle East & Africa Peltier Device Sales by Type (2021-2026)

8.3 Middle East & Africa Peltier Device 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 Peltier Device

10.3 Manufacturing Process Analysis of Peltier Device

10.4 Industry Chain Structure of Peltier Device

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Peltier Device Distributors

11.3 Peltier Device Customer

12 WORLD FORECAST REVIEW FOR PELTIER DEVICE BY GEOGRAPHIC REGION

12.1 Global Peltier Device Market Size Forecast by Region

12.1.1 Global Peltier Device Forecast by Region (2027-2032)

12.1.2 Global Peltier Device 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 Peltier Device Forecast by Type (2027-2032)

12.7 Global Peltier Device Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Ferrotec

13.1.1 Ferrotec Company Information

13.1.2 Ferrotec Peltier Device Product Portfolios and Specifications

13.1.3 Ferrotec Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Ferrotec Main Business Overview

13.1.5 Ferrotec Latest Developments

13.2 KELK Ltd.(Komatsu)

13.2.1 KELK Ltd.(Komatsu) Company Information

13.2.2 KELK Ltd.(Komatsu) Peltier Device Product Portfolios and Specifications

13.2.3 KELK Ltd.(Komatsu) Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 KELK Ltd.(Komatsu) Main Business Overview

13.2.5 KELK Ltd.(Komatsu) Latest Developments

13.3 Coherent Corp (formerly II-VI Incorporated)

13.3.1 Coherent Corp (formerly II-VI Incorporated) Company Information

13.3.2 Coherent Corp (formerly II-VI Incorporated) Peltier Device Product Portfolios and Specifications

13.3.3 Coherent Corp (formerly II-VI Incorporated) Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Coherent Corp (formerly II-VI Incorporated) Main Business Overview

13.3.5 Coherent Corp (formerly II-VI Incorporated) Latest Developments

13.4 Tark Thermal Solutions (formerly Laird Thermal Systems)

13.4.1 Tark Thermal Solutions (formerly Laird Thermal Systems) Company Information

13.4.2 Tark Thermal Solutions (formerly Laird Thermal Systems) Peltier Device Product Portfolios and Specifications

13.4.3 Tark Thermal Solutions (formerly Laird Thermal Systems) Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Tark Thermal Solutions (formerly Laird Thermal Systems) Main Business Overview

13.4.5 Tark Thermal Solutions (formerly Laird Thermal Systems) Latest Developments

13.5 KYOCERA

13.5.1 KYOCERA Company Information

13.5.2 KYOCERA Peltier Device Product Portfolios and Specifications

13.5.3 KYOCERA Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 KYOCERA Main Business Overview

13.5.5 KYOCERA Latest Developments

13.6 Phononic

13.6.1 Phononic Company Information

13.6.2 Phononic Peltier Device Product Portfolios and Specifications

13.6.3 Phononic Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Phononic Main Business Overview

13.6.5 Phononic Latest Developments

13.7 Guangdong Fuxin Technology

13.7.1 Guangdong Fuxin Technology Company Information

13.7.2 Guangdong Fuxin Technology Peltier Device Product Portfolios and Specifications

13.7.3 Guangdong Fuxin Technology Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Guangdong Fuxin Technology Main Business Overview

13.7.5 Guangdong Fuxin Technology Latest Developments

13.8 ARCTIC TEC

- 13.8.1 ARCTIC TEC Company Information
- 13.8.2 ARCTIC TEC Peltier Device Product Portfolios and Specifications
- 13.8.3 ARCTIC TEC Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.8.4 ARCTIC TEC Main Business Overview
- 13.8.5 ARCTIC TEC Latest Developments
- 13.9 KJLP
 - 13.9.1 KJLP Company Information
 - 13.9.2 KJLP Peltier Device Product Portfolios and Specifications
 - 13.9.3 KJLP Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 KJLP Main Business Overview
 - 13.9.5 KJLP Latest Developments
- 13.10 Thermion Company
 - 13.10.1 Thermion Company Company Information
 - 13.10.2 Thermion Company Peltier Device Product Portfolios and Specifications
 - 13.10.3 Thermion Company Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Thermion Company Main Business Overview
 - 13.10.5 Thermion Company Latest Developments
- 13.11 Z-MAX
 - 13.11.1 Z-MAX Company Information
 - 13.11.2 Z-MAX Peltier Device Product Portfolios and Specifications
 - 13.11.3 Z-MAX Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Z-MAX Main Business Overview
 - 13.11.5 Z-MAX Latest Developments
- 13.12 Zhejiang Wangu Semiconductor
 - 13.12.1 Zhejiang Wangu Semiconductor Company Information
 - 13.12.2 Zhejiang Wangu Semiconductor Peltier Device Product Portfolios and Specifications
 - 13.12.3 Zhejiang Wangu Semiconductor Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Zhejiang Wangu Semiconductor Main Business Overview
 - 13.12.5 Zhejiang Wangu Semiconductor Latest Developments
- 13.13 Xianghe Oriental Electronic
 - 13.13.1 Xianghe Oriental Electronic Company Information
 - 13.13.2 Xianghe Oriental Electronic Peltier Device Product Portfolios and Specifications
 - 13.13.3 Xianghe Oriental Electronic Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.13.4 Xianghe Oriental Electronic Main Business Overview
- 13.13.5 Xianghe Oriental Electronic Latest Developments
- 13.14 Thermonamic Electronics
 - 13.14.1 Thermonamic Electronics Company Information
 - 13.14.2 Thermonamic Electronics Peltier Device Product Portfolios and Specifications
 - 13.14.3 Thermonamic Electronics Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Thermonamic Electronics Main Business Overview
 - 13.14.5 Thermonamic Electronics Latest Developments
- 13.15 TE Technology
 - 13.15.1 TE Technology Company Information
 - 13.15.2 TE Technology Peltier Device Product Portfolios and Specifications
 - 13.15.3 TE Technology Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 TE Technology Main Business Overview
 - 13.15.5 TE Technology Latest Developments
- 13.16 P&N Technology
 - 13.16.1 P&N Technology Company Information
 - 13.16.2 P&N Technology Peltier Device Product Portfolios and Specifications
 - 13.16.3 P&N Technology Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 P&N Technology Main Business Overview
 - 13.16.5 P&N Technology Latest Developments
- 13.17 AISIN Corporation
 - 13.17.1 AISIN Corporation Company Information
 - 13.17.2 AISIN Corporation Peltier Device Product Portfolios and Specifications
 - 13.17.3 AISIN Corporation Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 AISIN Corporation Main Business Overview
 - 13.17.5 AISIN Corporation Latest Developments
- 13.18 Sensor Controls Co., Ltd.
 - 13.18.1 Sensor Controls Co., Ltd. Company Information
 - 13.18.2 Sensor Controls Co., Ltd. Peltier Device Product Portfolios and Specifications
 - 13.18.3 Sensor Controls Co., Ltd. Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.18.4 Sensor Controls Co., Ltd. Main Business Overview
 - 13.18.5 Sensor Controls Co., Ltd. Latest Developments
- 13.19 Wakefield Thermal
 - 13.19.1 Wakefield Thermal Company Information

- 13.19.2 Wakefield Thermal Peltier Device Product Portfolios and Specifications
- 13.19.3 Wakefield Thermal Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.19.4 Wakefield Thermal Main Business Overview
- 13.19.5 Wakefield Thermal Latest Developments
- 13.20 Same Sky (formerly CUI Devices)
 - 13.20.1 Same Sky (formerly CUI Devices) Company Information
 - 13.20.2 Same Sky (formerly CUI Devices) Peltier Device Product Portfolios and Specifications
 - 13.20.3 Same Sky (formerly CUI Devices) Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.20.4 Same Sky (formerly CUI Devices) Main Business Overview
 - 13.20.5 Same Sky (formerly CUI Devices) Latest Developments
- 13.21 TEC Microsystems GmbH
 - 13.21.1 TEC Microsystems GmbH Company Information
 - 13.21.2 TEC Microsystems GmbH Peltier Device Product Portfolios and Specifications
 - 13.21.3 TEC Microsystems GmbH Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.21.4 TEC Microsystems GmbH Main Business Overview
 - 13.21.5 TEC Microsystems GmbH Latest Developments
- 13.22 Peltron GmbH
 - 13.22.1 Peltron GmbH Company Information
 - 13.22.2 Peltron GmbH Peltier Device Product Portfolios and Specifications
 - 13.22.3 Peltron GmbH Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.22.4 Peltron GmbH Main Business Overview
 - 13.22.5 Peltron GmbH Latest Developments
- 13.23 Kryotherm Industries
 - 13.23.1 Kryotherm Industries Company Information
 - 13.23.2 Kryotherm Industries Peltier Device Product Portfolios and Specifications
 - 13.23.3 Kryotherm Industries Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.23.4 Kryotherm Industries Main Business Overview
 - 13.23.5 Kryotherm Industries Latest Developments
- 13.24 Crystal Ltd
 - 13.24.1 Crystal Ltd Company Information
 - 13.24.2 Crystal Ltd Peltier Device Product Portfolios and Specifications
 - 13.24.3 Crystal Ltd Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.24.4 Crystal Ltd Main Business Overview
- 13.24.5 Crystal Ltd Latest Developments
- 13.25 Liaoning Lengxin Technology
 - 13.25.1 Liaoning Lengxin Technology Company Information
 - 13.25.2 Liaoning Lengxin Technology Peltier Device Product Portfolios and Specifications
 - 13.25.3 Liaoning Lengxin Technology Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.25.4 Liaoning Lengxin Technology Main Business Overview
 - 13.25.5 Liaoning Lengxin Technology Latest Developments
- 13.26 Thermoelectric new energy technology
 - 13.26.1 Thermoelectric new energy technology Company Information
 - 13.26.2 Thermoelectric new energy technology Peltier Device Product Portfolios and Specifications
 - 13.26.3 Thermoelectric new energy technology Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.26.4 Thermoelectric new energy technology Main Business Overview
 - 13.26.5 Thermoelectric new energy technology Latest Developments
- 13.27 Jianju Technology
 - 13.27.1 Jianju Technology Company Information
 - 13.27.2 Jianju Technology Peltier Device Product Portfolios and Specifications
 - 13.27.3 Jianju Technology Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.27.4 Jianju Technology Main Business Overview
 - 13.27.5 Jianju Technology Latest Developments
- 13.28 Bi Sheng Semiconductor
 - 13.28.1 Bi Sheng Semiconductor Company Information
 - 13.28.2 Bi Sheng Semiconductor Peltier Device Product Portfolios and Specifications
 - 13.28.3 Bi Sheng Semiconductor Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.28.4 Bi Sheng Semiconductor Main Business Overview
 - 13.28.5 Bi Sheng Semiconductor Latest Developments
- 13.29 Henan Hongchang Electronic
 - 13.29.1 Henan Hongchang Electronic Company Information
 - 13.29.2 Henan Hongchang Electronic Peltier Device Product Portfolios and Specifications
 - 13.29.3 Henan Hongchang Electronic Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.29.4 Henan Hongchang Electronic Main Business Overview

- 13.29.5 Henan Hongchang Electronic Latest Developments
- 13.30 Wei County Zhongtian Electron Stock Cooperative
 - 13.30.1 Wei County Zhongtian Electron Stock Cooperative Company Information
 - 13.30.2 Wei County Zhongtian Electron Stock Cooperative Peltier Device Product Portfolios and Specifications
 - 13.30.3 Wei County Zhongtian Electron Stock Cooperative Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.30.4 Wei County Zhongtian Electron Stock Cooperative Main Business Overview
 - 13.30.5 Wei County Zhongtian Electron Stock Cooperative Latest Developments
- 13.31 Beijing Xinyu Kaimeng Electronic Technology
 - 13.31.1 Beijing Xinyu Kaimeng Electronic Technology Company Information
 - 13.31.2 Beijing Xinyu Kaimeng Electronic Technology Peltier Device Product Portfolios and Specifications
 - 13.31.3 Beijing Xinyu Kaimeng Electronic Technology Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.31.4 Beijing Xinyu Kaimeng Electronic Technology Main Business Overview
 - 13.31.5 Beijing Xinyu Kaimeng Electronic Technology Latest Developments
- 13.32 Beijing Huimao Refrigeration Equipment
 - 13.32.1 Beijing Huimao Refrigeration Equipment Company Information
 - 13.32.2 Beijing Huimao Refrigeration Equipment Peltier Device Product Portfolios and Specifications
 - 13.32.3 Beijing Huimao Refrigeration Equipment Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.32.4 Beijing Huimao Refrigeration Equipment Main Business Overview
 - 13.32.5 Beijing Huimao Refrigeration Equipment Latest Developments
- 13.33 Hangzhou Aurin Cooling Device
 - 13.33.1 Hangzhou Aurin Cooling Device Company Information
 - 13.33.2 Hangzhou Aurin Cooling Device Peltier Device Product Portfolios and Specifications
 - 13.33.3 Hangzhou Aurin Cooling Device Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.33.4 Hangzhou Aurin Cooling Device Main Business Overview
 - 13.33.5 Hangzhou Aurin Cooling Device Latest Developments
- 13.34 Henan Guanjing Semiconductor Technology
 - 13.34.1 Henan Guanjing Semiconductor Technology Company Information
 - 13.34.2 Henan Guanjing Semiconductor Technology Peltier Device Product Portfolios and Specifications
 - 13.34.3 Henan Guanjing Semiconductor Technology Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.34.4 Henan Guanjing Semiconductor Technology Main Business Overview

13.34.5 Henan Guanjing Semiconductor Technology Latest Developments

13.35 Hubei Sagreon New Energy Technology

13.35.1 Hubei Sagreon New Energy Technology Company Information

13.35.2 Hubei Sagreon New Energy Technology Peltier Device Product Portfolios and Specifications

13.35.3 Hubei Sagreon New Energy Technology Peltier Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.35.4 Hubei Sagreon New Energy Technology Main Business Overview

13.35.5 Hubei Sagreon New Energy Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Peltier Device Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Peltier Device Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Multi-Stage

Table 4. Major Players of Single-Stage

Table 5. Global Peltier Device Sales by Type (2021-2026) & (K Pcs)

Table 6. Global Peltier Device Sales Market Share by Type (2021-2026)

Table 7. Global Peltier Device Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Peltier Device Revenue Market Share by Type (2021-2026)

Table 9. Global Peltier Device Sale Price by Type (2021-2026) & (US\$/Pcs)

Table 10. Major Players of Standard Type

Table 11. Major Players of Center-hole Type

Table 12. Major Players of Custom-shaped

Table 13. Major Players of Other

Table 14. Global Peltier Device Sales by Package Geometry (2021-2026) & (K Pcs)

Table 15. Global Peltier Device Sales Market Share by Package Geometry (2021-2026)

Table 16. Global Peltier Device Revenue by Package Geometry (2021-2026) & (\$ million)

Table 17. Global Peltier Device Revenue Market Share by Package Geometry (2021-2026)

Table 18. Global Peltier Device Sale Price by Package Geometry (2021-2026) & (US\$/Pcs)

Table 19. Major Players of 50W Below

Table 20. Major Players of 50-100W

Table 21. Major Players of 100W Above

Table 22. Global Peltier Device Sales by Cooling Capacity (Qcmax) (2021-2026) & (K Pcs)

Table 23. Global Peltier Device Sales Market Share by Cooling Capacity (Qcmax) (2021-2026)

Table 24. Global Peltier Device Revenue by Cooling Capacity (Qcmax) (2021-2026) & (\$ million)

Table 25. Global Peltier Device Revenue Market Share by Cooling Capacity (Qcmax) (2021-2026)

Table 26. Global Peltier Device Sale Price by Cooling Capacity (Qcmax) (2021-2026) &

(US\$/Pcs)

Table 27. Global Peltier Device Sale by Application (2021-2026) & (K Pcs)

Table 28. Global Peltier Device Sale Market Share by Application (2021-2026)

Table 29. Global Peltier Device Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Peltier Device Revenue Market Share by Application (2021-2026)

Table 31. Global Peltier Device Sale Price by Application (2021-2026) & (US\$/Pcs)

Table 32. Global Peltier Device Sales by Company (2021-2026) & (K Pcs)

Table 33. Global Peltier Device Sales Market Share by Company (2021-2026)

Table 34. Global Peltier Device Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Peltier Device Revenue Market Share by Company (2021-2026)

Table 36. Global Peltier Device Sale Price by Company (2021-2026) & (US\$/Pcs)

Table 37. Key Manufacturers Peltier Device Producing Area Distribution and Sales Area

Table 38. Players Peltier Device Products Offered

Table 39. Peltier Device 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 Peltier Device Sales by Geographic Region (2021-2026) & (K Pcs)

Table 43. Global Peltier Device Sales Market Share Geographic Region (2021-2026)

Table 44. Global Peltier Device Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Peltier Device Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Peltier Device Sales by Country/Region (2021-2026) & (K Pcs)

Table 47. Global Peltier Device Sales Market Share by Country/Region (2021-2026)

Table 48. Global Peltier Device Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Peltier Device Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Peltier Device Sales by Country (2021-2026) & (K Pcs)

Table 51. Americas Peltier Device Sales Market Share by Country (2021-2026)

Table 52. Americas Peltier Device Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Peltier Device Sales by Type (2021-2026) & (K Pcs)

Table 54. Americas Peltier Device Sales by Application (2021-2026) & (K Pcs)

Table 55. APAC Peltier Device Sales by Region (2021-2026) & (K Pcs)

Table 56. APAC Peltier Device Sales Market Share by Region (2021-2026)

Table 57. APAC Peltier Device Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Peltier Device Sales by Type (2021-2026) & (K Pcs)

Table 59. APAC Peltier Device Sales by Application (2021-2026) & (K Pcs)

Table 60. Europe Peltier Device Sales by Country (2021-2026) & (K Pcs)

Table 61. Europe Peltier Device Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Peltier Device Sales by Type (2021-2026) & (K Pcs)

Table 63. Europe Peltier Device Sales by Application (2021-2026) & (K Pcs)
Table 64. Middle East & Africa Peltier Device Sales by Country (2021-2026) & (K Pcs)
Table 65. Middle East & Africa Peltier Device Revenue Market Share by Country (2021-2026)
Table 66. Middle East & Africa Peltier Device Sales by Type (2021-2026) & (K Pcs)
Table 67. Middle East & Africa Peltier Device Sales by Application (2021-2026) & (K Pcs)
Table 68. Key Market Drivers & Growth Opportunities of Peltier Device
Table 69. Key Market Challenges & Risks of Peltier Device
Table 70. Key Industry Trends of Peltier Device
Table 71. Peltier Device Raw Material
Table 72. Key Suppliers of Raw Materials
Table 73. Peltier Device Distributors List
Table 74. Peltier Device Customer List
Table 75. Global Peltier Device Sales Forecast by Region (2027-2032) & (K Pcs)
Table 76. Global Peltier Device Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 77. Americas Peltier Device Sales Forecast by Country (2027-2032) & (K Pcs)
Table 78. Americas Peltier Device Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 79. APAC Peltier Device Sales Forecast by Region (2027-2032) & (K Pcs)
Table 80. APAC Peltier Device Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 81. Europe Peltier Device Sales Forecast by Country (2027-2032) & (K Pcs)
Table 82. Europe Peltier Device Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 83. Middle East & Africa Peltier Device Sales Forecast by Country (2027-2032) & (K Pcs)
Table 84. Middle East & Africa Peltier Device Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 85. Global Peltier Device Sales Forecast by Type (2027-2032) & (K Pcs)
Table 86. Global Peltier Device Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 87. Global Peltier Device Sales Forecast by Application (2027-2032) & (K Pcs)
Table 88. Global Peltier Device Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 89. Ferrotec Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors
Table 90. Ferrotec Peltier Device Product Portfolios and Specifications
Table 91. Ferrotec Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 92. Ferrotec Main Business

Table 93. Ferrotec Latest Developments

Table 94. KELK?Ltd.(Komatsu) Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 95. KELK?Ltd.(Komatsu) Peltier Device Product Portfolios and Specifications

Table 96. KELK?Ltd.(Komatsu) Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 97. KELK?Ltd.(Komatsu) Main Business

Table 98. KELK?Ltd.(Komatsu) Latest Developments

Table 99. Coherent Corp (formerly II-VI Incorporated) Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 100. Coherent Corp (formerly II-VI Incorporated) Peltier Device Product Portfolios and Specifications

Table 101. Coherent Corp (formerly II-VI Incorporated) Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 102. Coherent Corp (formerly II-VI Incorporated) Main Business

Table 103. Coherent Corp (formerly II-VI Incorporated) Latest Developments

Table 104. Tark Thermal Solutions (formerly Laird Thermal Systems) Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 105. Tark Thermal Solutions (formerly Laird Thermal Systems) Peltier Device Product Portfolios and Specifications

Table 106. Tark Thermal Solutions (formerly Laird Thermal Systems) Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 107. Tark Thermal Solutions (formerly Laird Thermal Systems) Main Business

Table 108. Tark Thermal Solutions (formerly Laird Thermal Systems) Latest Developments

Table 109. KYOCERA Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 110. KYOCERA Peltier Device Product Portfolios and Specifications

Table 111. KYOCERA Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 112. KYOCERA Main Business

Table 113. KYOCERA Latest Developments

Table 114. Phononic Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 115. Phononic Peltier Device Product Portfolios and Specifications

Table 116. Phononic Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 117. Phononic Main Business

Table 118. Phononic Latest Developments

Table 119. Guangdong Fuxin Technology Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 120. Guangdong Fuxin Technology Peltier Device Product Portfolios and Specifications

Table 121. Guangdong Fuxin Technology Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 122. Guangdong Fuxin Technology Main Business

Table 123. Guangdong Fuxin Technology Latest Developments

Table 124. ARCTIC TEC Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 125. ARCTIC TEC Peltier Device Product Portfolios and Specifications

Table 126. ARCTIC TEC Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 127. ARCTIC TEC Main Business

Table 128. ARCTIC TEC Latest Developments

Table 129. KJLP Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 130. KJLP Peltier Device Product Portfolios and Specifications

Table 131. KJLP Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 132. KJLP Main Business

Table 133. KJLP Latest Developments

Table 134. Thermion Company Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 135. Thermion Company Peltier Device Product Portfolios and Specifications

Table 136. Thermion Company Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 137. Thermion Company Main Business

Table 138. Thermion Company Latest Developments

Table 139. Z-MAX Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 140. Z-MAX Peltier Device Product Portfolios and Specifications

Table 141. Z-MAX Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 142. Z-MAX Main Business

Table 143. Z-MAX Latest Developments

Table 144. Zhejiang Wangu Semiconductor Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 145. Zhejiang Wangu Semiconductor Peltier Device Product Portfolios and Specifications

Table 146. Zhejiang Wangu Semiconductor Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 147. Zhejiang Wangu Semiconductor Main Business

Table 148. Zhejiang Wangu Semiconductor Latest Developments

Table 149. Xianghe Oriental Electronic Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 150. Xianghe Oriental Electronic Peltier Device Product Portfolios and Specifications

Table 151. Xianghe Oriental Electronic Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 152. Xianghe Oriental Electronic Main Business

Table 153. Xianghe Oriental Electronic Latest Developments

Table 154. Thermonamic Electronics Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 155. Thermonamic Electronics Peltier Device Product Portfolios and Specifications

Table 156. Thermonamic Electronics Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 157. Thermonamic Electronics Main Business

Table 158. Thermonamic Electronics Latest Developments

Table 159. TE Technology Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 160. TE Technology Peltier Device Product Portfolios and Specifications

Table 161. TE Technology Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 162. TE Technology Main Business

Table 163. TE Technology Latest Developments

Table 164. P&N Technology Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 165. P&N Technology Peltier Device Product Portfolios and Specifications

Table 166. P&N Technology Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 167. P&N Technology Main Business

Table 168. P&N Technology Latest Developments

Table 169. AISIN Corporation Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 170. AISIN Corporation Peltier Device Product Portfolios and Specifications

Table 171. AISIN Corporation Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 172. AISIN Corporation Main Business

Table 173. AISIN Corporation Latest Developments

Table 174. Sensor Controls Co., Ltd. Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 175. Sensor Controls Co., Ltd. Peltier Device Product Portfolios and Specifications

Table 176. Sensor Controls Co., Ltd. Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 177. Sensor Controls Co., Ltd. Main Business

Table 178. Sensor Controls Co., Ltd. Latest Developments

Table 179. Wakefield Thermal Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 180. Wakefield Thermal Peltier Device Product Portfolios and Specifications

Table 181. Wakefield Thermal Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 182. Wakefield Thermal Main Business

Table 183. Wakefield Thermal Latest Developments

Table 184. Same Sky (formerly CUI Devices) Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 185. Same Sky (formerly CUI Devices) Peltier Device Product Portfolios and Specifications

Table 186. Same Sky (formerly CUI Devices) Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 187. Same Sky (formerly CUI Devices) Main Business

Table 188. Same Sky (formerly CUI Devices) Latest Developments

Table 189. TEC Microsystems GmbH Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 190. TEC Microsystems GmbH Peltier Device Product Portfolios and Specifications

Table 191. TEC Microsystems GmbH Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 192. TEC Microsystems GmbH Main Business

Table 193. TEC Microsystems GmbH Latest Developments

Table 194. Peltron GmbH Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 195. Peltron GmbH Peltier Device Product Portfolios and Specifications

Table 196. Peltron GmbH Peltier Device Sales (K Pcs), Revenue (\$ Million), Price

(US\$/Pcs) and Gross Margin (2021-2026)

Table 197. Peltron GmbH Main Business

Table 198. Peltron GmbH Latest Developments

Table 199. Kryotherm Industries Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 200. Kryotherm Industries Peltier Device Product Portfolios and Specifications

Table 201. Kryotherm Industries Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 202. Kryotherm Industries Main Business

Table 203. Kryotherm Industries Latest Developments

Table 204. Crystal Ltd Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 205. Crystal Ltd Peltier Device Product Portfolios and Specifications

Table 206. Crystal Ltd Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 207. Crystal Ltd Main Business

Table 208. Crystal Ltd Latest Developments

Table 209. Liaoning Lengxin Technology Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 210. Liaoning Lengxin Technology Peltier Device Product Portfolios and Specifications

Table 211. Liaoning Lengxin Technology Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 212. Liaoning Lengxin Technology Main Business

Table 213. Liaoning Lengxin Technology Latest Developments

Table 214. Thermoelectric new energy technology Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 215. Thermoelectric new energy technology Peltier Device Product Portfolios and Specifications

Table 216. Thermoelectric new energy technology Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 217. Thermoelectric new energy technology Main Business

Table 218. Thermoelectric new energy technology Latest Developments

Table 219. Jianju Technology Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 220. Jianju Technology Peltier Device Product Portfolios and Specifications

Table 221. Jianju Technology Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 222. Jianju Technology Main Business

Table 223. Jianju Technology Latest Developments

Table 224. Bi Sheng Semiconductor Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 225. Bi Sheng Semiconductor Peltier Device Product Portfolios and Specifications

Table 226. Bi Sheng Semiconductor Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 227. Bi Sheng Semiconductor Main Business

Table 228. Bi Sheng Semiconductor Latest Developments

Table 229. Henan Hongchang Electronic Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 230. Henan Hongchang Electronic Peltier Device Product Portfolios and Specifications

Table 231. Henan Hongchang Electronic Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 232. Henan Hongchang Electronic Main Business

Table 233. Henan Hongchang Electronic Latest Developments

Table 234. Wei County Zhongtian Electron Stock Cooperative Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 235. Wei County Zhongtian Electron Stock Cooperative Peltier Device Product Portfolios and Specifications

Table 236. Wei County Zhongtian Electron Stock Cooperative Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 237. Wei County Zhongtian Electron Stock Cooperative Main Business

Table 238. Wei County Zhongtian Electron Stock Cooperative Latest Developments

Table 239. Beijing Xinyu Kaimeng Electronic Technology Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 240. Beijing Xinyu Kaimeng Electronic Technology Peltier Device Product Portfolios and Specifications

Table 241. Beijing Xinyu Kaimeng Electronic Technology Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 242. Beijing Xinyu Kaimeng Electronic Technology Main Business

Table 243. Beijing Xinyu Kaimeng Electronic Technology Latest Developments

Table 244. Beijing Huimao Refrigeration Equipment Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 245. Beijing Huimao Refrigeration Equipment Peltier Device Product Portfolios and Specifications

Table 246. Beijing Huimao Refrigeration Equipment Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 247. Beijing Huimao Refrigeration Equipment Main Business

Table 248. Beijing Huimao Refrigeration Equipment Latest Developments

Table 249. Hangzhou Aurin Cooling Device Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 250. Hangzhou Aurin Cooling Device Peltier Device Product Portfolios and Specifications

Table 251. Hangzhou Aurin Cooling Device Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 252. Hangzhou Aurin Cooling Device Main Business

Table 253. Hangzhou Aurin Cooling Device Latest Developments

Table 254. Henan Guanjing Semiconductor Technology Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 255. Henan Guanjing Semiconductor Technology Peltier Device Product Portfolios and Specifications

Table 256. Henan Guanjing Semiconductor Technology Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 257. Henan Guanjing Semiconductor Technology Main Business

Table 258. Henan Guanjing Semiconductor Technology Latest Developments

Table 259. Hubei Sagreon New Energy Technology Basic Information, Peltier Device Manufacturing Base, Sales Area and Its Competitors

Table 260. Hubei Sagreon New Energy Technology Peltier Device Product Portfolios and Specifications

Table 261. Hubei Sagreon New Energy Technology Peltier Device Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 262. Hubei Sagreon New Energy Technology Main Business

Table 263. Hubei Sagreon New Energy Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Peltier Device
- Figure 2. Peltier Device Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Peltier Device Sales Growth Rate 2021-2032 (K Pcs)
- Figure 7. Global Peltier Device Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Peltier Device Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Peltier Device Sales Market Share by Country/Region (2025)
- Figure 10. Peltier Device Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Multi-Stage
- Figure 12. Product Picture of Single-Stage
- Figure 13. Global Peltier Device Sales Market Share by Type in 2026
- Figure 14. Global Peltier Device Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Standard Type
- Figure 16. Product Picture of Center-hole Type
- Figure 17. Product Picture of Custom-shaped
- Figure 18. Product Picture of Other
- Figure 19. Global Peltier Device Sales Market Share by Package Geometry in 2026
- Figure 20. Global Peltier Device Revenue Market Share by Package Geometry (2021-2026)
- Figure 21. Product Picture of 50W Below
- Figure 22. Product Picture of 50-100W
- Figure 23. Product Picture of 100W Above
- Figure 24. Global Peltier Device Sales Market Share by Cooling Capacity (Qcmax) in 2026
- Figure 25. Global Peltier Device Revenue Market Share by Cooling Capacity (Qcmax) (2021-2026)
- Figure 26. Peltier Device Consumed in Consumer Electronics
- Figure 27. Global Peltier Device Market: Consumer Electronics (2021-2026) & (K Pcs)
- Figure 28. Peltier Device Consumed in Communication
- Figure 29. Global Peltier Device Market: Communication (2021-2026) & (K Pcs)
- Figure 30. Peltier Device Consumed in Medical
- Figure 31. Global Peltier Device Market: Medical (2021-2026) & (K Pcs)
- Figure 32. Peltier Device Consumed in Automotive

- Figure 33. Global Peltier Device Market: Automotive (2021-2026) & (K Pcs)
- Figure 34. Peltier Device Consumed in Industrial
- Figure 35. Global Peltier Device Market: Industrial (2021-2026) & (K Pcs)
- Figure 36. Peltier Device Consumed in Aerospace Defense
- Figure 37. Global Peltier Device Market: Aerospace Defense (2021-2026) & (K Pcs)
- Figure 38. Peltier Device Consumed in Others
- Figure 39. Global Peltier Device Market: Others (2021-2026) & (K Pcs)
- Figure 40. Global Peltier Device Sale Market Share by Application (2025)
- Figure 41. Global Peltier Device Revenue Market Share by Application in 2025
- Figure 42. Peltier Device Sales by Company in 2025 (K Pcs)
- Figure 43. Global Peltier Device Sales Market Share by Company in 2025
- Figure 44. Peltier Device Revenue by Company in 2025 (\$ millions)
- Figure 45. Global Peltier Device Revenue Market Share by Company in 2025
- Figure 46. Global Peltier Device Sales Market Share by Geographic Region (2021-2026)
- Figure 47. Global Peltier Device Revenue Market Share by Geographic Region in 2025
- Figure 48. Americas Peltier Device Sales 2021-2026 (K Pcs)
- Figure 49. Americas Peltier Device Revenue 2021-2026 (\$ millions)
- Figure 50. APAC Peltier Device Sales 2021-2026 (K Pcs)
- Figure 51. APAC Peltier Device Revenue 2021-2026 (\$ millions)
- Figure 52. Europe Peltier Device Sales 2021-2026 (K Pcs)
- Figure 53. Europe Peltier Device Revenue 2021-2026 (\$ millions)
- Figure 54. Middle East & Africa Peltier Device Sales 2021-2026 (K Pcs)
- Figure 55. Middle East & Africa Peltier Device Revenue 2021-2026 (\$ millions)
- Figure 56. Americas Peltier Device Sales Market Share by Country in 2025
- Figure 57. Americas Peltier Device Revenue Market Share by Country (2021-2026)
- Figure 58. Americas Peltier Device Sales Market Share by Type (2021-2026)
- Figure 59. Americas Peltier Device Sales Market Share by Application (2021-2026)
- Figure 60. United States Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 61. Canada Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 62. Mexico Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Brazil Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 64. APAC Peltier Device Sales Market Share by Region in 2025
- Figure 65. APAC Peltier Device Revenue Market Share by Region (2021-2026)
- Figure 66. APAC Peltier Device Sales Market Share by Type (2021-2026)
- Figure 67. APAC Peltier Device Sales Market Share by Application (2021-2026)
- Figure 68. China Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Japan Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 70. South Korea Peltier Device Revenue Growth 2021-2026 (\$ millions)

- Figure 71. Southeast Asia Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 72. India Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 73. Australia Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 74. China Taiwan Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 75. Europe Peltier Device Sales Market Share by Country in 2025
- Figure 76. Europe Peltier Device Revenue Market Share by Country (2021-2026)
- Figure 77. Europe Peltier Device Sales Market Share by Type (2021-2026)
- Figure 78. Europe Peltier Device Sales Market Share by Application (2021-2026)
- Figure 79. Germany Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 80. France Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 81. UK Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Italy Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Russia Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Middle East & Africa Peltier Device Sales Market Share by Country (2021-2026)
- Figure 85. Middle East & Africa Peltier Device Sales Market Share by Type (2021-2026)
- Figure 86. Middle East & Africa Peltier Device Sales Market Share by Application (2021-2026)
- Figure 87. Egypt Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 88. South Africa Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Israel Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 90. Turkey Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 91. GCC Countries Peltier Device Revenue Growth 2021-2026 (\$ millions)
- Figure 92. Manufacturing Cost Structure Analysis of Peltier Device in 2026
- Figure 93. Manufacturing Process Analysis of Peltier Device
- Figure 94. Industry Chain Structure of Peltier Device
- Figure 95. Channels of Distribution
- Figure 96. Global Peltier Device Sales Market Forecast by Region (2027-2032)
- Figure 97. Global Peltier Device Revenue Market Share Forecast by Region (2027-2032)
- Figure 98. Global Peltier Device Sales Market Share Forecast by Type (2027-2032)
- Figure 99. Global Peltier Device Revenue Market Share Forecast by Type (2027-2032)
- Figure 100. Global Peltier Device Sales Market Share Forecast by Application (2027-2032)
- Figure 101. Global Peltier Device Revenue Market Share Forecast by Application (2027-2032)

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