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Global Battery Thermal Runaway Sensor Chips Market Growth 2025-2031

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Abstracts

The global Battery Thermal Runaway Sensor Chips market size is predicted to grow from US$ 146 million in 2025 to US$ 488 million in 2031; it is expected to grow at a CAGR of 22.2% from 2025 to 2031.

Battery thermal runaway sensor chips are compact semiconductor devices designed to detect early indicators of thermal runaway in battery systems. These chips monitor critical parameters such as temperature, gas emissions, and pressure changes to provide real-time alerts, enabling proactive safety measures.

United States market for Battery Thermal Runaway Sensor Chips is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Battery Thermal Runaway Sensor Chips is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Battery Thermal Runaway Sensor Chips is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Battery Thermal Runaway Sensor Chips players cover Amphenol, NXP, Infineon, NOVOSENSE, Shanghai Wangjie Electronic Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Battery Thermal Runaway Sensor Chips Industry Forecast” looks at past sales and reviews total world Battery

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Thermal Runaway Sensor Chips sales in 2024, providing a comprehensive analysis by region and market sector of projected Battery Thermal Runaway Sensor Chips sales for 2025 through 2031. With Battery Thermal Runaway Sensor Chips sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Battery Thermal Runaway Sensor Chips industry.

This Insight Report provides a comprehensive analysis of the global Battery Thermal Runaway Sensor Chips 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 Battery Thermal Runaway Sensor Chips portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Battery Thermal Runaway Sensor Chips market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Battery Thermal Runaway Sensor Chips 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 Battery Thermal Runaway Sensor Chips.

This report presents a comprehensive overview, market shares, and growth opportunities of Battery Thermal Runaway Sensor Chips market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

BPS Chips

BAS Chips

Others

Segmentation by Application:

Energy Storage

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- Electric Vehicles
- 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

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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.

Amphenol

NXP

Infineon

NOVOSENSE

Shanghai Wangjie Electronic Technology

Datang Enzhipu Semiconductor

Jintianhong Technology

Suzhou Nage Optoelectronic Technology

Zhongke Weigan (Ningbo) Technology

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Battery Thermal Runaway Sensor Chips market?
What factors are driving Battery Thermal Runaway Sensor Chips market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Battery Thermal Runaway Sensor Chips market opportunities vary by end market size?
How does Battery Thermal Runaway Sensor Chips break out by Type, by Application?

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