

Global Battery Cell Temperature Sensor Market Growth 2026-2032

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Abstracts

The global Battery Cell Temperature Sensor market size is predicted to grow from US\$ 1816 million in 2025 to US\$ 3412 million in 2032; it is expected to grow at a CAGR of 9.3% from 2026 to 2032.

Battery cell temperature sensors are precision sensing elements used to monitor the temperature of individual battery cells in real time. They are key components in battery management systems, effectively preventing thermal runaway, optimizing charge and discharge efficiency, and extending battery life. These sensors are widely used in lithium-ion batteries in electric vehicles, consumer electronics, and stationary energy storage systems. The upstream of the industry chain includes semiconductor materials, thermistors, chip substrates, and packaging materials; the midstream covers sensor manufacturing, calibration, packaging, and modular integration; downstream applications involve new energy vehicles, battery modules, energy storage systems, consumer electronics, and industrial power supplies, along with system integration and after-sales service. In 2024, the global production of battery temperature sensors was approximately 155 million units, with an average market price of approximately US\$12 per unit. Gross profit margins typically range from 25% to 45%, depending on technology and production scale. Global production capacity in 2024 was approximately 200 million units.

United States market for Battery Cell Temperature Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Battery Cell Temperature Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Battery Cell Temperature Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Battery Cell Temperature Sensor players cover NXP Semiconductors, TDK, Murata, AKCP, JR Sensors, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

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

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

Segmentation by Type:

NTC Thermistor Sensor

PTC Temperature Sensor

RTD Temperature Sensor

Semiconductor Temperature Sensor

Segmentation by Application Battery Type:

Lithium-ion Battery Temperature Sensor

LFP Battery Temperature Sensor

Solid-state Battery Temperature Sensor

Segmentation by Application:

Energy Storage Batteries

Power Batteries

Consumer Batteries

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.

NXP Semiconductors

TDK

Murata

AKCP

JR Sensors

Amphenol Advanced Sensors

Infineon Technologies

Proponent Battery Services GmbH

ATC Semitec

IEE

Morningstar

Focusens

Limator

XJ BMS

Bosch Mobility

Tosida

TE Connectivity

TOPOS

ams OSRAM

Key Questions Addressed in this Report

What is the 10-year outlook for the global Battery Cell Temperature Sensor market?

What factors are driving Battery Cell Temperature Sensor market growth, globally and by region?

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

How do Battery Cell Temperature Sensor market opportunities vary by end market size?

How does Battery Cell Temperature Sensor break out by Type, by Application?

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