

Global Battery Cell Temperature Sensor 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 Battery Cell Temperature Sensor market size was valued at US\$ 1911 million in 2025 and is forecast to a readjusted size of US\$ 3482 million by 2032 with a CAGR of 8.8% during review period.

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.

This report is a detailed and comprehensive analysis for global Battery Cell Temperature Sensor 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 Battery Cell Temperature Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Cell Temperature Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Cell Temperature Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Cell Temperature Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Battery Cell Temperature Sensor
- 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 Battery Cell Temperature Sensor 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 NXP Semiconductors, TDK, Murata, AKCP, JR Sensors, Amphenol Advanced Sensors, Infineon Technologies, Proponent Battery Services GmbH, ATC Semitec, IEE, etc.

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

Market Segmentation

Battery Cell Temperature Sensor 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

- NTC Thermistor Sensor
- PTC Temperature Sensor
- RTD Temperature Sensor
- Semiconductor Temperature Sensor

Market segment by Application Battery Type

- Lithium-ion Battery Temperature Sensor
- LFP Battery Temperature Sensor
- Solid-state Battery Temperature Sensor

Market segment by Application

- Energy Storage Batteries
- Power Batteries
- Consumer Batteries

Major players covered

- 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

Market segment by region, regional analysis covers

Global Battery Cell Temperature Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast t...

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 Battery Cell Temperature Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Cell Temperature Sensor, with price, sales quantity, revenue, and global market share of Battery Cell Temperature Sensor from 2021 to 2026.

Chapter 3, the Battery Cell Temperature Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Cell Temperature Sensor 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 Battery Cell Temperature Sensor 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 Battery Cell Temperature Sensor.

Chapter 14 and 15, to describe Battery Cell Temperature Sensor sales channel,

distributors, customers, research findings and conclusion.

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