

Global Electric Vehicle Battery Current Sensor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Electric Vehicle Battery Current Sensor market size was valued at US\$ 126 million in 2024 and is forecast to a readjusted size of USD 379 million by 2031 with a CAGR of 17.2% during review period.

The battery management system (BMS) for these vehicles carries out the important tasks of keeping the battery operating inside the safe operating area (SOA), monitoring power distribution, and keeping track of the state of charge (SoC). When the battery is the main source of energy for systems in HEVs/EVs, it is essential to have information about its charging and discharging cycles. Current sensors are the main source of information for charging and discharging cycle information by reporting the status of battery SOH to the battery management system. They may be located onboard or externally. For a typical battery, current sensors measure the current flowing into (when charging) or out of (when discharging) the battery.

The key brands of Electric Vehicle Battery Current Sensor include LEM Holding SA, Allegro Microsystems, LLC, Melexis NV, TDK Micronas, Honeywell International Inc., Robert Bosch GmbH, DENSO, Continental and so on. Among them, LEM Holding SA, Allegro Microsystems, LLC, Melexis NV are top 3 players who account for around 45% global revenue market share in 2019. We divide Current Sensors into Hall-Effect Current Sensors, Shunt Current Sensors and other magnetic Current Sensors. Hall-Effect Current Sensors dominated this market accounting for around 65% volume market share in 2019. Increasing adoption of hybrid and electrical vehicles among end users, owing to growing concerns regarding carbon emission is a factor expected to augment growth of the automotive segment in the global current sensor market. Asia Pacific will grow fast in the future as increasing demand of current sensors in industries

such as automotive, energy, healthcare, and telecommunication in countries such as China, India, and Japan.

This report is a detailed and comprehensive analysis for global Electric Vehicle Battery Current 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 Electric Vehicle Battery Current Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Electric Vehicle Battery Current Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Electric Vehicle Battery Current Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Electric Vehicle Battery Current Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Electric Vehicle Battery Current Sensor
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Electric Vehicle Battery Current 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 LEM Holding SA, Allegro Microsystems, LLC, Melexis NV, TDK Micronas, Honeywell International Inc., Robert Bosch GmbH, DENSO, Continental, etc.

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

Market Segmentation

Electric Vehicle Battery Current Sensor market is split by Type and by Application. For the period 2020-2031, 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

Hall Based Current Sensor

Shunt Based Current Sensor

Others

Market segment by Application

BEV

HEVs

PHEVs

Others

Major players covered

LEM Holding SA

Allegro Microsystems, LLC

Melexis NV

TDK Micronas

Honeywell International Inc.

Robert Bosch GmbH

DENSO

Continental

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 Electric Vehicle Battery Current Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electric Vehicle Battery Current Sensor, with price, sales quantity, revenue, and global market share of Electric Vehicle Battery Current Sensor from 2020 to 2025.

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

Chapter 4, the Electric Vehicle Battery Current Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Electric Vehicle Battery Current Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Electric Vehicle Battery Current Sensor.

Chapter 14 and 15, to describe Electric Vehicle Battery Current Sensor sales channel, distributors, customers, research findings and conclusion.

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