

# Global EV Current Sensor Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global EV Current Sensor market size will reach Million USD in 2025 and is projected to reach Million USD by 2032, with a CAGR of % (2025-2032). Notably, the China EV Current Sensor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

An EV current sensor is a critical component in electric vehicles (EVs) used to measure the flow of electrical current within the vehicle's power system. These sensors monitor the current passing through various parts of the EV, such as the battery, motor, and power electronics, providing real-time data essential for efficient energy management and safe operation. EV current sensors typically employ technologies like Hall effect, shunt, or magnetoresistive sensors to detect and measure current. This information is vital for controlling the charging and discharging processes of the battery, managing power distribution to the motor, ensuring the performance and safety of the vehicle, and optimizing overall energy efficiency. Accurate current measurement helps in preventing overcurrent conditions, diagnosing faults, and enhancing the longevity and reliability of the EV's electrical components.

The major global manufacturers of EV Current Sensor include CR Magnetics, TDK Corporation, LEM, Texas Instruments, Honeywell Sensing and Control, Melexis, Allegro MicroSystems, Infineon Technologies, Diamond-Quantum, HUNAN YINHE ELECTRIC, Continental, etc. The global players competition landscape in this report is divided into

three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of EV Current Sensor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global EV Current Sensor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the EV Current Sensor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of EV Current Sensor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of EV Current Sensor Include:

CR Magnetics

TDK Corporation

LEM

Texas Instruments

Honeywell Sensing and Control

Melexis

Allegro MicroSystems

Infineon Technologies

Diamond-Quantum

HUNAN YINHE ELECTRIC

Continental

EV Current Sensor Product Segment Include:

Shunt Type

Magnetic Type

EV Current Sensor Product Application Include:

Hybrid Electric Vehicle (HEV)

Plug-in Hybrid Electric Vehicle (PHEV)

Battery Electric Vehicle (BEV)

## **Chapter Scope**

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