

Global Automotive Current Transformers Market Growth 2026-2032

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Abstracts

The global Automotive Current Transformers market size is predicted to grow from US\$ 122 million in 2025 to US\$ 179 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 2032.

Automotive current transformers (CTs) are electrical measurement devices specifically designed for vehicle power and electronic control systems. They operate on the principle of electromagnetic induction to convert high current signals into proportionally lower current outputs, which can be used for current monitoring, energy measurement, protection, and control. Their main functions include current detection, overcurrent protection, energy monitoring, and closed-loop control, and they are widely applied in battery management systems (BMS) of electric vehicles, automotive DC-DC converters, inverters, motor drive systems, and onboard chargers (OBC). Automotive current transformers typically employ a closed magnetic circuit or split-core design. Key design considerations include rated current, turns ratio, frequency response, isolation performance, and automotive-grade reliability, ensuring reliable operation under high temperature, vibration, and long-term automotive conditions. They are critical components for safe, efficient, and intelligent operation of vehicle high-voltage and low-voltage electrical systems.

The upstream of the industry chain mainly includes suppliers of raw materials such as magnetic materials (e.g., silicon steel sheets, ferrite, amorphous/nanocrystalline magnetic cores), conductors (copper wire, enameled wire), insulation materials, and encapsulating resins, as well as suppliers of winding equipment, magnetic core processing equipment, and testing instruments, providing a fundamental guarantee for the production of current transformers. The midstream consists of current transformer design and manufacturing companies, responsible for magnetic core processing, coil

winding, encapsulation, insulation treatment, and performance testing. Their product types cover closed magnetic circuit type, open (open/detachable) type, and high-precision modular current transformers, widely used in high-voltage battery management systems (BMS) for new energy vehicles, on-board DC-DC converters, inverters, motor control modules, and on-board chargers (OBC). The downstream consists of OEMs and automotive electronics module manufacturers, who impose stringent requirements on on-board current transformers, including high-precision measurement, high linearity, fast response, isolation safety, and automotive-grade reliability, to ensure the safe, stable, and efficient operation of the power supply and control systems of new energy vehicles and intelligent vehicles.

In 2025, global sales of automotive current transformers will reach 16 million units, with a production capacity of approximately 23 million units. The average selling price is US\$7.8 per unit, and the average gross profit margin is 25%-35%.

The demand for automotive current transformers primarily stems from new energy vehicle high-voltage battery management systems (BMS), on-board DC-DC converters, inverters, motor control modules, and OBC chargers. Among these, high-voltage electronic control platforms and bidirectional energy feedback systems for new energy vehicles are the core drivers of growth. Simultaneously, the demand for precise current detection and EMI suppression from on-board intelligent driving systems (ADAS) and infotainment systems continues to grow. Overall demand exhibits three major trends: high precision, high power, and intelligence.

Automotive current transformer technology is evolving towards higher precision, lower leakage flux, higher frequency response, miniaturization, and modular packaging. Core materials are being optimized to ferrite or nanocrystalline/amorphous materials, satisfying both high-frequency characteristics and ensuring high current carrying capacity. Closed magnetic circuits and split-core designs are widely adopted to achieve fast response and high linearity. Surface mount technology (SMD) and modular integration designs are gradually becoming the trend, saving PCB space and facilitating system integration.

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

world Automotive Current Transformers industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Current Transformers 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 Automotive Current Transformers.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Current Transformers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Closed Magnetic Circuit Type

Open Magnetic Circuit Type

PCB Integrated Type

Segmentation by Functional:

Measurement Type

Protection Type

Filtering Type

Segmentation by Current:

10-50 A

50-100A

?100 A

Segmentation by Application:

DC-DC Converter

On-Board Charger

Motor Control System

Advanced Driver Assistance System

Vehicle Communication System

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

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.

LEM

Allegro MicroSystems

TDK

Infineon

Melexis

Honeywell

DENSO

Robert Bosch

Continental

STMicroelectronics

BYD

Kohshin Electric Corporation

SMART Electronics

SHT Corporation

Swoboda KG

Saizhuo Electronics

Sinomags

Xinsen Electronics

Novosense

Nanjing Zhongxu Electronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Current Transformers market?

What factors are driving Automotive Current Transformers market growth, globally and by region?

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

How do Automotive Current Transformers market opportunities vary by end market size?

How does Automotive Current Transformers break out by Type, by Application?

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