

# Global Automotive Current Transformers Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Automotive Current Transformers market size is expected to reach \$ 185 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global Automotive Current Transformers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Current Transformers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and

competition, as well as details the characteristics of Automotive Current Transformers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Current Transformers total production and demand, 2021-2032, (K Units)

Global Automotive Current Transformers total production value, 2021-2032, (USD Million)

Global Automotive Current Transformers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Current Transformers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Current Transformers domestic production, consumption, key domestic manufacturers and share

Global Automotive Current Transformers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Current Transformers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Current Transformers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Current Transformers market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LEM, Allegro MicroSystems, TDK, Infineon, Melexis, Honeywell, DENSO, Robert Bosch, Continental, STMicroelectronics, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Current Transformers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Automotive Current Transformers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Automotive Current Transformers Market, Segmentation by Type:

Closed Magnetic Circuit Type

Open Magnetic Circuit Type

PCB Integrated Type

#### Global Automotive Current Transformers Market, Segmentation by Functional:

Measurement Type

Protection Type

Filtering Type

## Global Automotive Current Transformers Market, Segmentation by Current:

10-50 A

50-100A

?100 A

## Global Automotive Current Transformers Market, Segmentation by Application:

DC-DC Converter

On-Board Charger

Motor Control System

Advanced Driver Assistance System

Vehicle Communication System

Others

## Companies Profiled:

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 Answered:

1. How big is the global Automotive Current Transformers market?
2. What is the demand of the global Automotive Current Transformers market?
3. What is the year over year growth of the global Automotive Current Transformers market?
4. What is the production and production value of the global Automotive Current Transformers market?
5. Who are the key producers in the global Automotive Current Transformers market?
6. What are the growth factors driving the market demand?

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