

Global EV Amp Gauges Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global EV Amp Gauges market size is expected to reach \$ 2081 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

In 2025, global EV Amp Gauge output reached about 80 million units and global capacity of around 100 million units. The average price is about USD 15 per unit, with gross margins near 35%. EV Amp Gauges are electronic current-monitoring instruments used in electric vehicles (EVs) to measure, display, and manage the flow of electrical current within battery systems, charging circuits, power distribution units, inverters, DC-DC converters, and auxiliary electrical subsystems. These gauges provide real-time ampere readings to support battery management, energy efficiency optimization, fault diagnosis, overload protection, and vehicle performance monitoring. Modern EV amp gauges typically integrate current sensors such as Hall-effect sensors, shunt resistors, magnetic current transducers, or smart power-monitoring ICs with digital displays, CAN bus communication modules, and embedded control software. The supply chain of EV Amp Gauges begins upstream with semiconductor materials, copper alloys, magnetic cores, PCB substrates, display panels, and sensing components supplied by electronics and sensor manufacturers. Midstream activities involve the design and manufacturing of current sensors, gauge modules, display systems, embedded firmware, and automotive-grade electronic assemblies by automotive electronics companies and instrumentation suppliers. Downstream, EV amp gauges are integrated into battery electric vehicles (BEVs), plug-in hybrid electric vehicles (PHEVs), commercial EV fleets, electric buses, charging infrastructure equipment, energy storage systems, and aftermarket vehicle monitoring solutions by automotive OEMs, EV system integrators, and charging equipment manufacturers.

This report studies the global EV Amp Gauges production, demand, key manufacturers,

and key regions.

This report is a detailed and comprehensive analysis of the world market for EV Amp Gauges 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 EV Amp Gauges that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global EV Amp Gauges total production and demand, 2021-2032, (K Units)

Global EV Amp Gauges total production value, 2021-2032, (USD Million)

Global EV Amp Gauges production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global EV Amp Gauges consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: EV Amp Gauges domestic production, consumption, key domestic manufacturers and share

Global EV Amp Gauges production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global EV Amp Gauges production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global EV Amp Gauges production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global EV Amp Gauges 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 Holding, Allegro MicroSystems, Infineon Technologies, Texas Instruments, Honeywell, TDK Corporation, STMicroelectronics, onsemi, NXP Semiconductors, Analog Devices, 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 EV Amp Gauges 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 EV Amp Gauges Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EV Amp Gauges Market, Segmentation by Type:

Hall-Effect EV Amp Gauges

Shunt-Based EV Amp Gauges

Fluxgate EV Amp Gauges

Others

Global EV Amp Gauges Market, Segmentation by Measurement Range:

600 A

Global EV Amp Gauges Market, Segmentation by Application:

Battery Electric Vehicles (BEVs)

Plug-in Hybrid Electric Vehicles (PHEVs)

Hybrid Electric Vehicles (HEVs)

Companies Profiled:

LEM Holding

Allegro MicroSystems

Infineon Technologies

Texas Instruments

Honeywell

TDK Corporation

STMicroelectronics

onsemi

NXP Semiconductors

Analog Devices

ROHM Semiconductor

Tamura

ABB Group

Eaton

Mitsubishi Electric

Hangzhi Precision

Socan Technologies

Acrel Electric

Key Questions Answered:

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

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