

Global EV DC Energy Meter Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GB1BF91F0DEDEN.html>

Date: February 2026

Pages: 113

Price: US\$ 4,480.00 (Single User License)

ID: GB1BF91F0DEDEN

Abstracts

The global EV DC Energy Meter market size is expected to reach \$ 274 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

The EV DC energy meter is a high-precision energy metering instrument specifically designed for DC power supply/charging scenarios of electric vehicles. Its core function is to collect, accurately measure, and transmit key electrical parameters such as voltage, current, active power, cumulative energy, and charging time of DC circuits in real time. It features anti-interference, wide voltage range, anti-tampering, and compatibility with DC fast charging/battery swapping scenarios. It is a core basic device for metering, billing, and energy consumption statistics in the DC charging/battery swapping system of electric vehicles.

In 2025, the global production of EV DC energy meters was 750,000 units, with an average price of US\$239 per unit.

Upstream mainly consists of metering ICs, MCUs, ADCs, isolation components, current and voltage sensors, power devices, PCBs, and mechanical parts. Downstream demand is the key focus, with applications concentrated in DC fast chargers, ultra-fast charging stations, battery swapping stations, vehicle-to-grid systems, and charging billing scenarios. Major downstream customers include charging equipment manufacturers, charging network operators, utilities, and energy service providers. End users place strong emphasis on metering accuracy, long-term stability, wide voltage and current ranges, electromagnetic robustness, and compliance with billing and regulatory requirements.

The development of EV DC energy meters is moving toward higher accuracy, support

for high-voltage and high-current charging, modular designs, and digital interfaces, while remote communication, data security, and multi-protocol compatibility are becoming standard features. Market growth is driven by the rapid expansion of electric vehicle fleets, accelerated deployment of DC fast and ultra-fast charging infrastructure, and increasingly standardized charging and billing regulations. Key constraints include high certification and compliance barriers, differences in technical standards across regions, cost pressure, and intensifying price competition, which challenge smaller suppliers.

In terms of profitability, EV DC energy meters generally show mid-to-high gross margins, typically ranging from 35% to 55%. Companies with proprietary high-precision metering technologies, broad certification coverage, and strong partnerships with leading charger manufacturers tend to achieve higher margins, while suppliers focused on standardized, price-driven products face more limited profitability.

This report studies the global EV DC Energy Meter production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global EV DC Energy Meter total production and demand, 2021-2032, (Units)

Global EV DC Energy Meter total production value, 2021-2032, (USD Million)

Global EV DC Energy Meter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global EV DC Energy Meter consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: EV DC Energy Meter domestic production, consumption, key domestic manufacturers and share

Global EV DC Energy Meter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global EV DC Energy Meter production by Accuracy Class, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global EV DC Energy Meter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global EV DC Energy Meter 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 CHINT, Holley, Acrel, Phoenix Contact, LEM, Carlo Gavazzi, Lovato Electric, Eastron, Accuenergy, AST International, 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 DC Energy Meter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Accuracy Class, 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 DC Energy Meter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EV DC Energy Meter Market, Segmentation by Accuracy Class:

Class 0.2

Class 0.5

Class 1.0

Other

Global EV DC Energy Meter Market, Segmentation by Installation Location:

Built-in Charging Pile

Wall-Mounted

Vehicle-Mounted

Global EV DC Energy Meter Market, Segmentation by Communication Interface:

Wired Communication

Wireless Communication

Multi-Communication Convergence Type

Global EV DC Energy Meter Market, Segmentation by Application:

Public DC Fast Charging Station

Home DC Charging Pile

Electric Vehicle Battery Swapping Station

Other

Companies Profiled:

CHINT

Holley

Acrel

Phoenix Contact

LEM

Carlo Gavazzi

Lovato Electric

Eastron

Accuenergy

AST International

Key Questions Answered:

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

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