

Global Embedded DC Energy Meter Market Growth 2026-2032

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Abstracts

The global Embedded DC Energy Meter market size is predicted to grow from US\$ 123 million in 2025 to US\$ 209 million in 2032; it is expected to grow at a CAGR of 7.4% from 2026 to 2032.

An embedded DC energy meter is a meter specifically designed to measure DC energy. It is usually designed to embed the energy meter into electrical equipment or systems. This type of energy meter can directly measure DC current and voltage in equipment to calculate energy usage. Embedded DC energy meters play an important role in various application scenarios such as solar power generation, energy storage systems, electric vehicle charging systems, and industrial equipment.

2025, global embedded DC energy meters sales volume reached 0.73 million units, with average price of 172 US\$ per unit.

Embedded DC energy meters are increasingly integrated directly into power equipment rather than installed as separate external meters. In EV chargers, photovoltaic inverters, battery energy storage systems, DC distribution cabinets, telecom power systems, and industrial power modules, equipment manufacturers are embedding DC metering functions into the main control board or power electronics system. This trend reduces installation space, wiring complexity, component cost, and system integration difficulty, while allowing the equipment itself to monitor energy flow, efficiency, charging status, and operating conditions in real time.

The market is moving toward smart, communication-enabled, and software-defined metering modules. Embedded DC energy meters are becoming part of broader digital energy platforms, so they increasingly support communication interfaces, real-time data

output, fault diagnosis, calibration functions, firmware updates, and compatibility with energy management systems. For equipment manufacturers, embedded meters are not only measurement components but also data sources for billing, remote operation, load optimization, predictive maintenance, and cloud-based monitoring, especially in EV charging and distributed energy applications.

Higher-power DC systems are pushing embedded meters toward better accuracy, isolation, and thermal stability. As EV fast charging, battery storage, solar-plus-storage systems, and DC microgrids move toward higher voltage and current levels, embedded DC energy meters must operate reliably under strong electromagnetic interference, temperature variation, and compact installation conditions. This supports demand for high-precision shunt, Hall-effect, and magnetic sensing solutions, as well as isolated measurement designs, compact metering ICs, and modules with stronger anti-interference capability. Suppliers with advantages in accuracy, miniaturization, safety isolation, communication protocols, and certification support are better positioned in the embedded DC energy meter market.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Embedded DC Energy Meter 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 Embedded DC Energy Meter.

This report presents a comprehensive overview, market shares, and growth opportunities of Embedded DC Energy Meter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Under 100 kW

100–200 kW

Above 200 kW

Segmentation by Product:

Common DC Energy Meters

Smart Communication DC Meters

Segmentation by Class:

Class 0.2

Class 0.5

Class 1.0

Segmentation by Application:

EV Chargers

Data Centers

Photovoltaic

Power & Grid

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.

Accuenergy

LEM

DZG Metering

Phoenix Contact

Isabellenhutte

Eaton

ICD

ACREL

Carlo Gavazzi

Ziegler

Ivy Metering

SATEC

AST International

Eastron Electronic

Zhejiang Yongtailong Electronic

Zhuhai Pilot Technology

Chengdu Hop Technology

Linyang Energy

Key Questions Addressed in this Report

What is the 10-year outlook for the global Embedded DC Energy Meter market?

What factors are driving Embedded DC Energy Meter market growth, globally and by region?

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

How do Embedded DC Energy Meter market opportunities vary by end market size?

How does Embedded DC Energy Meter break out by Type, by Application?

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