

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

<https://marketpublishers.com/r/G581CAE04DEFEN.html>

Date: August 2026

Pages: 142

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

ID: G581CAE04DEFEN

Abstracts

The global Embedded DC Energy Meter market size is expected to reach \$ 214 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

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.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Embedded DC Energy Meter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Embedded 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 Accuenergy, LEM, DZG Metering, Phoenix Contact, Isabellenhutte, Eaton, ICD, ACREL, Carlo Gavazzi, Ziegler, 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 Embedded DC Energy Meter 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 Embedded DC Energy Meter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Embedded DC Energy Meter Market, Segmentation by Type:

Under 100 kW

100?200 kW

Above 200 kW

Global Embedded DC Energy Meter Market, Segmentation by Product:

Common DC Energy Meters

Smart Communication DC Meters

Global Embedded DC Energy Meter Market, Segmentation by Class:

Class 0.2

Class 0.5

Class 1.0

Global Embedded DC Energy Meter Market, Segmentation by Application:

EV Chargers

Data Centers

Photovoltaic

Power & Grid

Others

Companies Profiled:

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 Answered:

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

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