

DC Residential Switchgear Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

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Abstracts

The Global DC Residential Switchgear Market reached USD 2.7 billion in 2024 and is projected to grow at a strong CAGR of 9.5% from 2025 to 2034. This robust growth is driven by the rising adoption of renewable energy systems, especially solar power, in residential applications. Government initiatives promoting clean energy and electrification are further accelerating market expansion. Additionally, the increasing demand for electric vehicle (EV) charging infrastructure is boosting the need for DC switchgear solutions, ensuring efficient and safe home charging. Key regions such as Asia-Pacific and North America are leading the market, supported by high energy demand and rapid urbanization.

Indoor DC switchgear installations are expected to generate USD 5.8 billion by 2034. The growing integration of renewable energy systems, like rooftop solar panels, has significantly increased the demand for indoor switchgear solutions. These installations are highly favored for their ability to offer superior protection against environmental factors such as dust, moisture, and temperature fluctuations, ensuring long-term reliability and performance. As residential spaces adopt increasingly sophisticated energy management systems, the demand for secure, efficient, and durable indoor switchgear continues to rise.

The low-voltage segment of the DC residential switchgear market is forecasted to grow at a CAGR of 9.5% through 2034. This growth is fueled by the expanding use of low-voltage applications in residential energy systems, including solar panels, battery storage, and home energy management systems. Low-voltage switchgear provides cost-effective and safe energy management, meeting the specific voltage needs of residential setups. These systems are crucial for protecting electrical circuits from faults

and ensuring efficient energy distribution, which becomes increasingly important as more homeowners embrace renewable energy technologies.

The U.S. DC residential switchgear market is projected to generate USD 900 million by 2034, driven by the rapid adoption of renewable energy solutions, particularly rooftop solar panels. Homeowners are increasingly investing in solar power systems, creating a need for reliable DC switchgear to manage energy flow between solar panels, batteries, and household appliances. Additionally, government incentives such as tax credits and rebates for residential solar installations are further fueling this trend, positioning the U.S. as a key growth market for DC residential switchgear.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculation
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid
 - 1.4.2.2 Public

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021 - 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
 - 3.3.1 Growth drivers
 - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
 - 3.5.1 Bargaining power of suppliers
 - 3.5.2 Bargaining power of buyers
 - 3.5.3 Threat of new entrants
 - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Strategic dashboard
- 4.2 Innovation & sustainability landscape

CHAPTER 5 MARKET SIZE AND FORECAST, BY INSTALLATION, 2021 – 2034 (USD MILLION, '000 UNITS)

5.1 Key trends

5.2 Indoor

5.3 Outdoor

CHAPTER 6 MARKET SIZE AND FORECAST, BY VOLTAGE, 2021 – 2034 (USD MILLION, '000 UNITS)

6.1 Key trends

6.2 Low

6.3 Medium

CHAPTER 7 MARKET SIZE AND FORECAST, BY REGION, 2021 – 2034 (USD MILLION, '000 UNITS)

7.1 Key trends

7.2 North America

7.2.1 U.S.

7.2.2 Canada

7.2.3 Mexico

7.3 Europe

7.3.1 UK

7.3.2 France

7.3.3 Germany

7.3.4 Italy

7.3.5 Russia

7.3.6 Spain

7.4 Asia Pacific

7.4.1 China

7.4.2 Australia

7.4.3 India

7.4.4 Japan

7.4.5 South Korea

7.5 Middle East & Africa

7.5.1 Saudi Arabia

7.5.2 UAE

7.5.3 Turkey

7.5.4 South Africa

7.5.5 Egypt

7.6 Latin America

7.6.1 Brazil

7.6.2 Argentina

CHAPTER 8 COMPANY PROFILES

8.1 ABB

8.2 Bharat Heavy Electricals

8.3 CG Power and Industrial Solutions

8.4 E + I Engineering

8.5 Eaton

8.6 Fuji Electric

8.7 General Electric

8.8 HD Hyundai Electric

8.9 Hitachi

8.10 Hyosung Heavy Industries

8.11 Lucy Group

8.12 Mitsubishi Electric

8.13 Ormazabal

8.14 Schneider Electric

8.15 Siemens

8.16 Skema

8.17 Toshiba

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