

Global Data Center Solid Oxide Fuel Cells (SOFC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center Solid Oxide Fuel Cells (SOFC) market size is expected to reach \$ 620 million by 2032, rising at a market growth of 20.6% CAGR during the forecast period (2026-2032).

Data Center Solid Oxide Fuel Cells (SOFC) refer to the use of solid oxide fuel cell systems as on-site power generation units for data centers, providing continuous, high-efficiency, low-emission electricity by electrochemically converting fuels such as natural gas, hydrogen, or biogas into electrical energy. SOFC systems operate at high temperatures (typically 600-1000°C) and generate electricity without combustion, making them suitable for baseload, backup, or hybrid power supply in mission-critical data center infrastructure. In 2025, the global newly installed capacity of solid oxide fuel cells (SOFCs) for data center applications is projected to reach approximately 50.19MW, with an average system selling price of about USD 2,816 per kW.

This report studies the global Data Center Solid Oxide Fuel Cells (SOFC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Solid Oxide Fuel Cells (SOFC) 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 Data Center Solid Oxide Fuel Cells (SOFC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center Solid Oxide Fuel Cells (SOFC) total production and demand,

2021-2032, (MW)

Global Data Center Solid Oxide Fuel Cells (SOFC) total production value, 2021-2032, (USD Million)

Global Data Center Solid Oxide Fuel Cells (SOFC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global Data Center Solid Oxide Fuel Cells (SOFC) consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: Data Center Solid Oxide Fuel Cells (SOFC) domestic production, consumption, key domestic manufacturers and share

Global Data Center Solid Oxide Fuel Cells (SOFC) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global Data Center Solid Oxide Fuel Cells (SOFC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Data Center Solid Oxide Fuel Cells (SOFC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Data Center Solid Oxide Fuel Cells (SOFC) 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 Bloom Energy, Aisin Corporation, Mitsubishi Power, Kyocera Corp., MIURA CO., LTD., Ceres, SolydEra, Sunfire GmbH, Convion, Elcogen, 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 Data Center Solid Oxide Fuel Cells (SOFC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/KW) 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 Data Center Solid Oxide Fuel Cells (SOFC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Solid Oxide Fuel Cells (SOFC) Market, Segmentation by Type:

Planar

Tubular

Others

Global Data Center Solid Oxide Fuel Cells (SOFC) Market, Segmentation by System Structure:

Prime Power SOFC

Grid-Parallel SOFC

Backup SOFC

SOFC-UPS Hybrid

Global Data Center Solid Oxide Fuel Cells (SOFC) Market, Segmentation by

Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Companies Profiled:

Bloom Energy

Aisin Corporation

Mitsubishi Power

Kyocera Corp.

MIURA CO., LTD.

Ceres

SolydEra

Sunfire GmbH

Convion

Elcogen

Special Power Sources (SPS)

Topsoe

Redox Power Systems

OxEon Energy

WATT Fuel Cell

H2E Power

Upstart Power

New Enerday

Special Power Sources

Nexceris

Adelan fuel cells

Redwire Space

Chemtronergy

Fuel Cell Energy

Doosan Fuel Cell

Bosch Hydrogen Energy

Egen Energy

Key Questions Answered:

1. How big is the global Data Center Solid Oxide Fuel Cells (SOFC) market?
2. What is the demand of the global Data Center Solid Oxide Fuel Cells (SOFC) market?
3. What is the year over year growth of the global Data Center Solid Oxide Fuel Cells (SOFC) market?
4. What is the production and production value of the global Data Center Solid Oxide Fuel Cells (SOFC) market?

5. Who are the key producers in the global Data Center Solid Oxide Fuel Cells (SOFC) market?
6. What are the growth factors driving the market demand?

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