

Air Cooled Home Standby Gensets Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Air Cooled Home Standby Gensets Market reached USD 4.3 billion in 2024 and is estimated to grow at a CAGR of 6.6% from 2025 to 2034. Increased power outages due to extreme weather conditions, including heat waves, have raised consumer awareness of the need for reliable backup power systems. As reliance on electrical devices grows, the demand for dependable gensets is expected to rise.

Air-cooled home standby gensets are crucial for ensuring homes have a constant power supply during outages. Government initiatives that focus on disaster preparedness, environmental sustainability, and tax incentives for genset installation are expected to boost market growth. The demand for highly efficient, low-emission systems will further enhance the market's potential, making these systems more attractive to consumers.

The demand for air-cooled home standby gensets with power outputs between 10 kVA and 15 kVA is forecasted to reach USD 2 billion by 2034. Consumers increasingly prefer portable and compact generators that offer high performance with minimal space requirements. These units are known for their lightweight, operational efficiency, and small size, making them ideal for residential use. Ongoing innovations in engine technology and noise reduction will contribute to the growth of this product category, along with favorable regulations that support infrastructure investment.

The single-phase air-cooled home standby gensets market is expected to grow at a CAGR of over 6% through 2034. These units are lighter and more compact than other types, thanks to the efficient use of windings. With their ability to deliver consistent power, flexibility, and excellent material efficiency, single-phase systems are gaining popularity among consumers. The rising awareness of backup power options, combined

with challenges in grid reliability, will further drive the adoption of these systems.

In the U.S., the market for air-cooled home standby gensets is expected to exceed USD 2.5 million by 2034. Increased demand for reliable power supplies in residential developments, along with significant investments in luxury real estate and foreign capital inflows, will spur growth. The rising frequency of weather-related outages, coupled with growing pressure on utility power grids, will contribute to increased demand for home standby generators.

The Asia Pacific region is witnessing considerable growth in the air-cooled home standby gensets market, driven by investments in the housing sector and government electrification projects. Technological advancements, such as remote operation and integration with smart home systems, are expected to further accelerate market expansion. The growing residential sector and rapid urban development will also promote the widespread use of these gensets.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definitions
- 1.2 Market estimates & forecast parameters
- 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 Introduction
- 4.2 Strategic outlook
- 4.3 Innovation & sustainability landscape

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

- 5.1 Key trends
- 5.2 ? 10 kVA
- 5.3 > 10 kVA - 15 kVA
- 5.4 > 15 kVA - 20 kVA
- 5.5 > 20 kVA

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

- 6.1 Key trends
- 6.2 Diesel
- 6.3 Gas
- 6.4 Others

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

- 7.1 Key trends
- 7.2 Single phase
- 7.3 Three phase

CHAPTER 8 MARKET SIZE AND FORECAST, BY REGION, 2021 – 2034 ('000 UNITS & USD MILLION)

- 8.1 Key trends
- 8.2 North America
 - 8.2.1 U.S.
 - 8.2.2 Canada
 - 8.2.3 Mexico
- 8.3 Europe
 - 8.3.1 UK
 - 8.3.2 France
 - 8.3.3 Germany
 - 8.3.4 Italy
 - 8.3.5 Russia

- 8.3.6 Spain
- 8.4 Asia Pacific
 - 8.4.1 China
 - 8.4.2 Australia
 - 8.4.3 India
 - 8.4.4 Japan
 - 8.4.5 South Korea
- 8.5 Middle East & Africa
 - 8.5.1 Saudi Arabia
 - 8.5.2 UAE
 - 8.5.3 Turkey
 - 8.5.4 South Africa
 - 8.5.5 Egypt
- 8.6 Latin America
 - 8.6.1 Brazil
 - 8.6.2 Argentina

CHAPTER 9 COMPANY PROFILES

- 9.1 Ashok Leyland
- 9.2 Briggs & Stratton
- 9.3 Caterpillar
- 9.4 Champion Power Equipment
- 9.5 Cummins
- 9.6 Eaton
- 9.7 Generac Power Systems
- 9.8 HIMOINSA
- 9.9 Kirloskar
- 9.10 Kohler
- 9.11 Mahindra Powerol
- 9.12 Pinnacle Generators
- 9.13 PR Industrial srl
- 9.14 Prakash
- 9.15 Sichuan XinYici Power Machinery

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