

Single Phase Portable Generators Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Single Phase Portable Generators Market generated USD 6.6 billion in 2024 and is projected to grow at a CAGR of 4.3% from 2025 to 2034. This growth is driven by increasing investments in infrastructure development, rapid urbanization, and the ongoing construction boom across developed and developing economies. The surge in residential and commercial construction projects, coupled with rising consumer awareness about emergency preparedness, is propelling the demand for portable power solutions. Additionally, the telecommunications industry's expansion and the rising frequency and intensity of weather-related disasters, such as hurricanes, floods, and wildfires, continue to fuel the demand for reliable power sources.

As global electricity grids age and face increasing challenges, the need for portable backup power solutions becomes more prominent. The growing adoption of smart homes, coupled with the rising popularity of outdoor recreational activities, also contributes to the increasing use of single-phase portable generators. Moreover, the shift toward decentralized energy solutions and the need for reliable power during grid failures are encouraging the adoption of these versatile devices. With increasing environmental concerns, manufacturers are focusing on improving fuel efficiency and reducing emissions in portable generators, further enhancing their appeal.

Single-phase portable generators are designed to produce alternating current with a single voltage waveform, making them adaptable and easy to use in a wide range of scenarios. Their portability and compact design make them ideal for providing temporary power in locations where a permanent electricity supply is unavailable. Heightened awareness of disaster preparedness and risk mitigation has led to a significant rise in demand for these generators, particularly in regions prone to natural disasters. Whether used in residential settings to provide backup power during outages or in construction sites for powering tools and equipment, these generators remain an

essential component in maintaining continuity and safety.

The market is segmented based on product type, with conventional portable and inverter portable generators being the dominant categories. The inverter portable generator segment is anticipated to generate USD 4 billion by 2034. These generators offer superior benefits such as compact size, quiet operation, lightweight design, and high fuel efficiency, making them increasingly popular in residential and commercial applications. Consumers favor inverter generators for their ability to provide stable power with minimal noise, making them suitable for powering sensitive electronic devices and ensuring a seamless power supply during emergencies.

In terms of fuel type, the market is further segmented into diesel, gasoline, and other fuel options. Gasoline-powered single-phase portable generators dominated the market with an 84.9% share in 2024. Their affordability and suitability for applications with low power requirements make them the preferred choice for residential and small business applications. Gasoline-powered generators are widely used for backup power during outages and outdoor activities, contributing to their strong market presence.

Additionally, advancements in fuel efficiency and emission control technologies are expected to sustain the demand for gasoline-powered generators in the long term.

The U.S. Single Phase Portable Generators Market generated USD 2.5 billion in 2024, with strong growth projected in the coming years. Increasing demand for reliable, continuous energy solutions, frequent power disruptions caused by natural disasters, and the aging grid infrastructure are significant factors driving market growth. The need for dependable backup power solutions in residential and commercial applications continues to fuel demand for these generators, ensuring their relevance in an increasingly power-dependent society.

Contents

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 PRODUCT, 2021 - 2034 ('000

Single Phase Portable Generators Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 20...

UNITS & USD MILLION)

- 5.1 Key trends
- 5.2 Conventional portable
- 5.3 Inverter portable

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

- 6.1 Key trends
- 6.2 Diesel
 - 6.2.1 6.2.2 20 - 50 kW
 - 6.2.3 > 50 - 100 kW
- 6.3 Gasoline
 - 6.3.1 6.3.2 2 kW - 5 kW
 - 6.3.3 6 kW - 8 kW
 - 6.3.4 > 8 kW - 15 kW
- 6.4 Others

CHAPTER 7 MARKET SIZE AND FORECAST, BY END USE, 2021 - 2034 ('000 UNITS & USD MILLION)

- 7.1 Key trends
- 7.2 Residential
- 7.3 Commercial

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
- 8.3 Europe
 - 8.3.1 Russia
 - 8.3.2 UK
 - 8.3.3 Germany
 - 8.3.4 France
 - 8.3.5 Spain

8.3.6 Austria

8.3.7 Italy

8.4 Asia Pacific

8.4.1 Australia

8.4.2 Japan

8.4.3 China

8.4.4 India

8.4.5 Indonesia

8.4.6 Singapore

8.4.7 Vietnam

8.5 Middle East

8.5.1 Saudi Arabia

8.5.2 UAE

8.5.3 Qatar

8.5.4 Turkey

8.5.5 Iran

8.5.6 Oman

8.6 Africa

8.6.1 Egypt

8.6.2 Nigeria

8.6.3 Algeria

8.6.4 South Africa

8.7 Latin America

8.7.1 Mexico

8.7.2 Argentina

8.7.3 Brazil

CHAPTER 9 COMPANY PROFILES

9.1 Allmand Bros

9.2 Atlas Copco

9.3 Briggs & Stratton

9.4 Caterpillar

9.5 Champion Power Equipment

9.6 Cummins

9.7 Deere & Company

9.8 DuroMax Power Equipment

9.9 FIRMAN Power Equipment

9.10 Generac Power Systems

- 9.11 HIMOINSA
- 9.12 Honda India Power Products
- 9.13 Kirloskar
- 9.14 Rehlko
- 9.15 Wacker Neuson
- 9.16 Westinghouse Electric Corporation
- 9.17 Yamaha Motor
- 9.18 YANMAR

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