

Global Solar Air Conditioning Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar Air Conditioning Systems market size is expected to reach \$ 924 million by 2032, rising at a market growth of 12.1% CAGR during the forecast period (2026-2032).

Solar air conditioning is a building cooling and heating system that utilizes solar energy as its primary or auxiliary power source. Designed to reduce reliance on conventional electricity and lower carbon emissions, it integrates either photovoltaic (PV) modules or solar thermal collectors. The key technologies involved include photovoltaic (PV) air conditioning—driven by solar-generated electricity—and adsorption- or absorption-based air conditioning, which is powered by solar-heated water. Its core advantage lies in the positive correlation between 'peak summer cooling loads' and 'solar radiation intensity,' thereby achieving a natural 'supply-demand balance' in energy utilization.

In 2025, the global production volume of solar air conditioning systems is projected to reach 380,000 units, with an average price of \$1,050 per unit and an average gross margin of 24.5%.

Based on our research, solar air conditioning should not be treated as a conventional air conditioner simply powered by rooftop solar panels. The category is built around the strong natural match between daytime solar generation and peak cooling demand. Compared with standard air conditioners, the key differentiation lies in the power architecture and control logic: solar air conditioners often support DC solar input, hybrid AC/DC operation, MPPT control, solar-priority operation, grid backup, battery interface or photovoltaic direct-drive capability. Deye's product description explicitly refers to AC power mode, DC power mode and AC+DC mixed power supply, while HotSpot Energy's ACDC12C is designed to blend solar DC power directly with grid AC power.

This shows that the current mainstream route is not necessarily full off-grid operation, but rather maximizing daytime solar use while maintaining reliable cooling through grid or battery backup.

From the supply side, the market is best understood as a combination of specialist solar air-conditioning companies, Chinese solar-HVAC innovators and global HVAC leaders with potential entry capability. Deye, HotSpot Energy, Airspool, Sunrain, Supergreen Tech, Moseta, Ecozen, Nexus Solar Energy and Essolx have direct solar or hybrid solar air-conditioning product evidence, making them closer to the core supplier group. Gree and TECO represent a more commercial and system-level route, including photovoltaic direct-driven chillers, solar VRF systems and hybrid green-energy inverter air-conditioning systems. Gree's official materials show photovoltaic direct-driven inverter centrifugal chillers and Solar GMV systems, while TECO's Taiwan Excellence product uses a hybrid solar-grid power supply and reduces the need for a solar inverter. By contrast, Daikin, Midea, Carrier, Trane, LG, Samsung and Panasonic have strong HVAC, heat-pump and energy-management capabilities, but solar air conditioning is not yet a mainstream standalone product line for most of them.

Demand growth is mainly supported by rising cooling demand in hot regions, higher electricity prices, distributed solar adoption, weak-grid cooling needs, RV and off-grid building applications, and commercial-building demand for peak-load reduction. India, Southeast Asia, the Middle East, Africa, Latin America and southern China are structurally attractive because high solar irradiation overlaps with high cooling loads. In the United States and Australia, demand is more closely linked to residential solar, off-grid homes, RVs and DIY energy systems. Europe is a smaller direct market for residential solar air conditioners, but commercial solar HVAC, heat pumps and building energy management may create opportunities under self-consumption and energy-efficiency policies. In the near term, solar air conditioners are unlikely to replace standard inverter air conditioners at scale, but they can build a clear value proposition in high-electricity-cost, high-solar-radiation, weak-grid and off-grid applications.

From a technology roadmap perspective, three product routes are likely to coexist. The first is hybrid AC/DC split solar air conditioning for homes, offices and small commercial spaces. The second is low-voltage DC solar air conditioning for cabins, RVs, telecom shelters, mobile rooms and remote facilities. The third is photovoltaic direct-driven VRF, chiller and commercial HVAC systems for larger buildings, factories, schools and commercial complexes. Future competition will not be based only on whether a product can connect to PV panels. It will depend on solar utilization efficiency, inverter compressor performance, MPPT control, inverterless operation, storage coordination,

high-temperature reliability, installation simplicity, after-sales networks and total system cost. If leading HVAC manufacturers standardize solar, storage, heat pumps and building energy control into integrated product platforms, the market could expand materially. Without installation standardization and cost reduction, however, solar air conditioning will remain a specialized but fast-growing niche.

This report studies the global Solar Air Conditioning Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solar Air Conditioning Systems 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 Solar Air Conditioning Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solar Air Conditioning Systems total production and demand, 2021-2032, (K Units)

Global Solar Air Conditioning Systems total production value, 2021-2032, (USD Million)

Global Solar Air Conditioning Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Solar Air Conditioning Systems consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Solar Air Conditioning Systems domestic production, consumption, key domestic manufacturers and share

Global Solar Air Conditioning Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Solar Air Conditioning Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Solar Air Conditioning Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Solar Air Conditioning Systems 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 Deye, Gree Electric Appliances, Sunrain, HotSpot Energy, Airspool, MESAN USA, EG4 Electronics, Solar Air, SolAir World, Supergreen Tech, 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 Solar Air Conditioning Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Solar Air Conditioning Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Air Conditioning Systems Market, Segmentation by Type:

Pure Solar Driven Type

Solar+Grid Complementary Type

Solar+Gas Complementary Type

Solar+Energy Storage Integrated Type

Global Solar Air Conditioning Systems Market, Segmentation by Cooling Capacity:

Below 1.5HP

1.5-3HP

3-5HP

Above 5HP

Global Solar Air Conditioning Systems Market, Segmentation by Refrigeration Principle:

PV Direct-Drive Compression Type

Absorption Refrigeration Type

Adsorption Refrigeration Type

Ejector Refrigeration Type

Thermoelectric Cooling Type

Global Solar Air Conditioning Systems Market, Segmentation by Installation Method:

Wall-Mounted Type

Cabinet Type

Central Air Conditioning Type

Roof Integrated Type

Global Solar Air Conditioning Systems Market, Segmentation by Application:

Residential Cooling Heating

Commercial Building Cooling

Industrial Plant Cooling

Remote Area Power Supply

Agricultural Greenhouse Control

Companies Profiled:

Deye

Gree Electric Appliances

Sunrain

HotSpot Energy

Airspool

MESAN USA

EG4 Electronics

Solar Air

SolAir World

Supergreen Tech

Foshan Juyang New Energy

TECO Electric & Machinery

Moseta

Ecozen Solutions

Nexus Solar Energy

Essolx

Shandong Zhongfa Liqun Solar Technology

Lipower

Zero Breeze

EcoFlow

Midea

LG Electronics

Mitsubishi Heavy Industries Thermal Systems

Daikin Industries

Panasonic

Trane Technologies

Carrier Global

Johnson Controls

Lennox International

Blue Star

Voltas

Samsung Electronics

Hisense

TCL

Key Questions Answered:

1. How big is the global Solar Air Conditioning Systems market?
2. What is the demand of the global Solar Air Conditioning Systems market?
3. What is the year over year growth of the global Solar Air Conditioning Systems market?
4. What is the production and production value of the global Solar Air Conditioning Systems market?
5. Who are the key producers in the global Solar Air Conditioning Systems market?
6. What are the growth factors driving the market demand?

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