

Global Solar Refrigerators Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar Refrigerators market size is expected to reach \$ 377 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

A solar refrigerator is a cooling device that utilizes solar energy—either directly as electricity or thermal energy—to power its operation. These units are ideally suited for regions lacking a stable power grid, mobile medical applications, outdoor activities, or eco-conscious households seeking energy-efficient solutions.

In 2025, global solar refrigerator production is projected to reach 260,000 units, with an average price of \$711 per unit and an average gross margin of 27.5%.

Based on our research, solar refrigerators should not be understood as ordinary refrigerators merely connected to rooftop solar panels. The category is defined by off-grid refrigeration, low-power compressor design, DC power compatibility, solar input control, battery or thermal storage, and stable cooling under weak-grid or no-grid conditions. The market is mainly supported by two demand groups. The first includes off-grid households, small commercial users, RV owners, outdoor users, rural communities and weak-grid regions, where buyers value low energy consumption, solar compatibility, simple installation and food preservation. The second includes vaccine cold chains and healthcare systems, where buyers require temperature stability, freeze protection, WHO/PQS-related qualification, hot-climate reliability, remote monitoring and low lifecycle maintenance cost. UNICEF's procurement guidance describes solar-powered refrigeration equipment as a solution that can keep vaccines at the required temperature without relying on a national grid, which explains why medical cold-chain use remains one of the most structurally important segments for solar refrigerators.

From the supply side, the global market can be divided into medical cold-chain specialists, off-grid household and commercial refrigeration manufacturers, and portable outdoor refrigeration brands. B Medical Systems, Dulas, Vestfrost Solutions, Haier Biomedical, Aucma and Godrej & Boyce are positioned strongly in Solar Direct Drive vaccine refrigerators and medical cold-chain equipment. B Medical Systems offers a broad SDD vaccine refrigerator range, Dulas states that its Solar Direct Drive refrigerators use phase-change material to maintain vaccine storage temperature, and Vestfrost Solutions describes SDD units designed for areas with unstable electricity and alternate power needs. These suppliers compete on certification, temperature stability, safety, after-sales support and public-health project experience rather than only on unit price.

Demand in medical and public-health applications is smaller in unit volume than mainstream household refrigeration, but it has higher ASP, higher qualification barriers and more stable project-based procurement. Non-medical demand is broader and more fragmented, covering off-grid homes, islands, rural stores, fishing communities, camping, RVs, outdoor activities and emergency backup refrigeration. In these use cases, the product is often sold as a solar-compatible DC refrigerator or freezer rather than a fully integrated medical cold-chain system. SunDanzer's BFRV55 is described as shipping with the refrigerator, solar panels, battery, charge controller, wiring and tools, while Phocos positions its DC refrigerator/freezer as an off-grid solution that can operate from solar, wind, hydro, generator or battery power. This shows that non-medical products are often sold around system compatibility and energy autonomy.

From a technology perspective, the industry is moving from basic combinations of solar panels, batteries and efficient refrigerators toward Solar Direct Drive, phase-change thermal storage, reduced battery dependence, smart temperature control, remote monitoring and improved reliability in hot climates. In medical cold-chain applications, the key objective is to maintain stable vaccine temperatures through nights and cloudy periods while reducing dependence on large batteries that require replacement and maintenance. In household and off-grid applications, the focus is on 12V/24V/48V DC input, low starting current, thick insulation, efficient compressors and compatibility with small solar home systems. Future growth will be shaped by rural electrification gaps, vaccine cold-chain expansion, off-grid lifestyles, outdoor recreation, declining PV costs and improvements in efficient DC refrigeration technology.

This report studies the global Solar Refrigerators production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Solar Refrigerators total production and demand, 2021-2032, (K Units)

Global Solar Refrigerators total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Solar Refrigerators domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Solar Refrigerators 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 B Medical Systems, Dulas, Vestfrost Solutions, Haier Biomedical, Aucma, Godrej & Boyce, Sure Chill, SunDanzer, Phocos, Unique Appliances, 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 Refrigerators market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Refrigerators Market, Segmentation by Type:

Pure Solar Direct Drive Type

Solar+Energy Storage Integrated Type

Solar+Grid Complementary Type

Solar+Diesel Complementary Type

Global Solar Refrigerators Market, Segmentation by Effective Capacity:

Below 50 L

50–100 L

100–200 L

200–400 L

Above 400 L

Other / Customized Capacity

Global Solar Refrigerators Market, Segmentation by Cooling Method:

Vapor Compression Type

Absorption Type

Thermoelectric Cooling Type

Stirling Refrigeration Type

Global Solar Refrigerators Market, Segmentation by Application:

Remote Area Refrigeration

Medical Cold Chain Transport

Outdoor Camping Use

RV Vehicle Refrigeration

Agricultural Product Preservation

Companies Profiled:

B Medical Systems

Dulas

Vestfrost Solutions

Haier Biomedical

Aucma

Godrej & Boyce

Sure Chill

SunDanzer

Phocos

Unique Appliances

EcoSolarCool

SunStar

Meditech Technologies India

Rockwell Industries

Dometic

ARB

Engel

National Luna

BougeRV

EcoFlow

Juka Solar

YOZEAL

Qingdao Smad Electric Appliances

DS New Energy

Supergreen Tech

SolarChill

Key Questions Answered:

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

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