

# Global Solar DC Freezer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G4A572B03B04EN.html>

Date: January 2026

Pages: 113

Price: US\$ 3,480.00 (Single User License)

ID: G4A572B03B04EN

## Abstracts

According to our (Global Info Research) latest study, the global Solar DC Freezer market size was valued at US\$ 498 million in 2025 and is forecast to a readjusted size of US\$ 723 million by 2032 with a CAGR of 5.6% during review period.

A solar DC freezer is an energy-efficient refrigerator/freezer that runs on Direct Current (DC) power from solar panels, ideal for off-grid locations, RVs, or sustainable homes, featuring thick insulation and a DC compressor for low energy draw, often with battery storage for continuous operation, providing reliable cold storage without grid reliance.

Global production of solar-powered DC freezers is projected to reach 560,000 units by 2025, with an average price of \$864 per unit. Gross profit margins typically range from 30% to 45%.

The upstream of the solar-powered DC freezer industry chain mainly includes core components such as DC compressors, insulation materials, DC controllers, photovoltaic modules, batteries, and refrigerants. Among these, the performance of the DC compressor and battery has the greatest impact on energy efficiency, reliability, and overall cost. The downstream is the most critical link in demand, mainly concentrated in medical cold chain, remote and unpowered households, commercial cold storage, and humanitarian and public projects. Medical cold chain is one of the core downstream applications, used for storing vaccines, blood, and biological products. It has extremely high requirements for temperature control stability and power outage protection, and is usually procured centrally by governments, international organizations, and medical institutions. Demand for solar-powered DC freezers in remote households and small communities stems from basic preservation needs in environments without or with weak

electricity. They are highly price-sensitive but prioritize durability and low maintenance. Commercial cold storage mainly serves rural retail, frozen beverages, and agricultural product preservation; demand fluctuates with local economic and agricultural output. Humanitarian aid and development projects primarily use bulk purchasing, focusing on certification standards, long-term operating costs, and after-sales service capabilities.

Industry development trends are reflected in the integration of high-efficiency DC systems, low-power designs, and the widespread adoption of integrated solar and energy storage solutions, with products evolving towards higher reliability and longer off-grid operation times. Key driving factors include the accelerated construction of global vaccine cold chains, the advancement of electrification in remote areas, and policy support for renewable energy applications. Obstacles include high initial procurement costs, pressure related to battery life and replacement costs, and insufficient after-sales service and technical support in some regions.

This report is a detailed and comprehensive analysis for global Solar DC Freezer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Solar DC Freezer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solar DC Freezer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solar DC Freezer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solar DC Freezer market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

## The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Solar DC Freezer

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Solar DC Freezer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SunDanzer, SunStar, Unique Appliances, Phocos, Koolboks, Dometic, EcoFlow, BougeRV, B Medical Systems, Dulas, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Solar DC Freezer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Single Door

Double Door

Triple Door

### Market segment by Capacity

Less than 50L

50-150L

151-300L

301-500L

More than 500L

#### Market segment by Principle

Compression Refrigeration

Absorption Refrigeration

Semiconductor Refrigeration

#### Market segment by Structure

Vertical

Horizontal

Embedded

#### Market segment by Application

Commercial

Home

#### Major players covered

SunDanzer

SunStar

Unique Appliances

Phocos

Koolboks

Dometic

EcoFlow

BougeRV

B Medical Systems

Dulas

Haier Biomedical

Vestfrost Solutions

Qingdao Aucma Global Medical

SureChill

Exalta

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Solar DC Freezer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solar DC Freezer, with price, sales quantity, revenue, and global market share of Solar DC Freezer from 2021 to 2026.

Chapter 3, the Solar DC Freezer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solar DC Freezer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Solar DC Freezer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solar DC Freezer.

Chapter 14 and 15, to describe Solar DC Freezer sales channel, distributors, customers, research findings and conclusion.

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