

Global Glovebox for Perovskite Solar Cell Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Glovebox for Perovskite Solar Cell market size is expected to reach \$ 180 million by 2032, rising at a market growth of 19.2% CAGR during the forecast period (2026-2032).

In 2025, global Glovebox for Perovskite Solar Cell production reached approximately 600 units with an average price of USD \$82,000 per unit. This category covers complete controlled-atmosphere platforms configured for perovskite photovoltaic research, pilot development, or limited manufacturing. A typical system combines a sealed stainless-steel enclosure, transfer chambers, gas purification or purge control, oxygen and moisture monitoring, and interfaces for tools such as spin coaters, hotplates, evaporators, or encapsulation equipment. It occupies the equipment layer between standalone process tools and a complete photovoltaic production line: the target product is the glovebox-centered workstation that maintains an uninterrupted inert workflow, rather than an individual coating, deposition, testing, or gas-handling component. Commercial forms range from compact benchtop systems for device research to multi-chamber clusters supporting coating, thermal treatment, electrode deposition, and air-free transfer. Its independent market value is created by atmosphere stability, solvent management, configuration engineering, process integration, safety design, and after-sales service. Demand is concentrated among universities, national laboratories, photovoltaic equipment developers, and companies scaling single-junction and tandem perovskite devices.

Glovebox for Perovskite Solar Cell should be understood as specialized controlled-atmosphere process infrastructure rather than a generic laboratory glovebox. Its value is created by combining environmental isolation with the workflow needed for perovskite precursor preparation, coating, annealing, electrode formation, encapsulation, and air-

free transfer. The market therefore includes both dedicated perovskite models and configurable platforms with documented perovskite capability, while excluding standalone tools, generic resellers, and complete solar-cell lines whose glovebox content cannot be separated. 2) Demand should remain tied to the transition of perovskite photovoltaics from cell-level research toward reproducible modules and tandem architectures. Research laboratories continue to need compact systems, but the more important structural shift is toward larger workstations with solvent trapping, repeatable atmosphere control, integrated coating and deposition interfaces, and multi-chamber transfer. Commercialization will not convert every production step into a glovebox process; some mature lines may use dry rooms, local enclosures, or continuous inert modules. Growth should therefore be strong but below the expansion rate of the overall perovskite equipment ecosystem. 3) Current supply is fragmented across global inert-atmosphere specialists, photovoltaic equipment integrators, and regional laboratory-equipment manufacturers. European and North American suppliers are stronger in customized clusters, process integration, safety engineering, and premium service, while Chinese and other Asian vendors compete effectively in standard purified gloveboxes, fast customization, and price-sensitive laboratory or pilot projects. Competitive differentiation is moving away from the empty enclosure itself and toward low and stable oxygen-moisture levels, solvent-resistant purification, contamination control, tool compatibility, remote monitoring, and the ability to expand from one workstation to connected chambers. 4) The main growth factors are the spread of perovskite-silicon tandem research, rising emphasis on device stability and reproducibility, expansion of pilot coating and evaporation capabilities, and the need to transfer sensitive samples between process steps without ambient exposure. Demand is also supported by more diverse device formats, including flexible cells, lead-reduced or tin-based formulations, and larger-area modules, each of which increases the need for controlled handling and configurable interfaces. Constraints include high custom-system cost, long validation cycles, solvent load on purification media, maintenance requirements, and the possibility that ambient-air processing improves enough to reduce dependence on gloveboxes for selected formulations. 5) Market positioning will increasingly split into three layers: economical benchtop or purge-based systems for early experiments, standard regenerable gloveboxes for mainstream device fabrication, and high-value integrated clusters for tandem, pilot, and pre-production work. Suppliers able to combine atmosphere engineering with coating, evaporation, encapsulation, digital monitoring, and application support should capture a larger share of value than vendors selling undifferentiated chambers. The category remains independently researchable because purchase decisions, pricing, competitors, and replacement cycles are determined by the glovebox-centered platform, even when several process tools are installed within it.]

This report studies the global Glovebox for Perovskite Solar Cell production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Glovebox for Perovskite Solar Cell total production and demand, 2021-2032, (Units)

Global Glovebox for Perovskite Solar Cell total production value, 2021-2032, (USD Million)

Global Glovebox for Perovskite Solar Cell production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Glovebox for Perovskite Solar Cell consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Glovebox for Perovskite Solar Cell domestic production, consumption, key domestic manufacturers and share

Global Glovebox for Perovskite Solar Cell production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Glovebox for Perovskite Solar Cell production by Integration Architecture, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Glovebox for Perovskite Solar Cell production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Glovebox for Perovskite Solar Cell 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 INDUS Holding AG (M. Braun Inertgas-Systeme GmbH), Jacomex, Etelux Inert Gas System (Beijing) Co., Ltd., Mikrouna (Shanghai) Industrial Intelligent Technology Co., Ltd., Vigor Technologies (Suzhou) Co., Ltd., MTI Corporation, LABPRO Glovebox Systems, Korea Kiyon Co., Ltd., Changshu Tongrun Electronic Technology Co., Ltd., Kurt J. Lesker Company, 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 Glovebox for Perovskite Solar Cell market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Integration Architecture, 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 Glovebox for Perovskite Solar Cell Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Glovebox for Perovskite Solar Cell Market, Segmentation by Integration Architecture:

Standalone Workstation

Tool-Integrated Workstation

Multi-Chamber Process Cluster

Others

Global Glovebox for Perovskite Solar Cell Market, Segmentation by Atmosphere Purification Architecture:

Purge-Only System

Single-Column Regenerative System

Dual-Column Continuous System

Others

Global Glovebox for Perovskite Solar Cell Market, Segmentation by Working Chamber Length:

Up to 1,200 mm

Above 1,200 mm to 1,800 mm

Above 1,800 mm

Global Glovebox for Perovskite Solar Cell Market, Segmentation by Application:

Perovskite Photovoltaic Industry

Photovoltaic Equipment Industry

Advanced Materials Industry

Scientific Research Services

Others

Companies Profiled:

INDUS Holding AG (M. Braun Inertgas-Systeme GmbH)

Jacomex

Etelux Inert Gas System (Beijing) Co., Ltd.

Mikrouna (Shanghai) Industrial Intelligent Technology Co., Ltd.

Vigor Technologies (Suzhou) Co., Ltd.

MTI Corporation

LABPRO Glovebox Systems

Korea Kiyon Co., Ltd.

Changshu Tongrun Electronic Technology Co., Ltd.

Kurt J. Lesker Company

Yamato Co., Ltd.

Xiamen TOB New Energy Technology Co., Ltd.

Inert Corporation

UNICO Co., Ltd.

Angstrom Engineering Inc.

ITSWA Co., Ltd.

Ossila Ltd.

Seibu Giken Co., Ltd.

Zhengzhou CY Scientific Instrument Co., Ltd.

Key Questions Answered:

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

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