

Global Busbar-free (0BB) Stringer Market Growth 2026-2032

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Abstracts

The global Busbar-free (0BB) Stringer market size is predicted to grow from US\$ 126 million in 2025 to US\$ 346 million in 2032; it is expected to grow at a CAGR of 15.9% from 2026 to 2032.

Traditional solar cell modules contain a main grid and a secondary grid (fine grid) in the metal electrode part, where the main grid is used to collect and connect the secondary grid current in series, and the secondary grid is used to collect photogenerated carriers. 0BB technology eliminates the main grid and only retains the secondary grid, thereby reducing the use of metal electrodes, reducing the shading area, and improving the photoelectric conversion efficiency.

Driven by the cost reduction and efficiency increase in the photovoltaic industry, the 0BB process, which is regarded as the ultimate welding technology in the photovoltaic industry and has the dual advantages of saving silver paste costs and increasing component power, is being introduced into the market at an unprecedented speed. At present, the 0BB string welding process has become the focus of the next round of photovoltaic technology competition with its huge potential. From TOPCon to HJT, and then to the BC field, many industry leaders have deployed 0BB technology in order to gain the upper hand in this technological innovation. Although various companies are competing in the development and application of 0BB technology, and new products are emerging in an endless stream, the technology still faces many challenges, including the selection of welding technology routes, the guarantee of yield in large-scale mass production, the stable maintenance of welding consistency, and the improvement of detection efficiency. From the equipment level, the string welding scheme of 0BB components is subdivided into four categories according to the interconnection method between the welding ribbon and the battery cell: film coating, printing glue + curing,

printing glue + welding, welding + glue application. Each scheme has different process layouts and equipment requirements in different battery technologies, which undoubtedly puts higher requirements on the innovation and customization capabilities of equipment manufacturers.

LP Information, Inc. (LPI) ' newest research report, the "Busbar-free (0BB) Stringer Industry Forecast" looks at past sales and reviews total world Busbar-free (0BB) Stringer sales in 2025, providing a comprehensive analysis by region and market sector of projected Busbar-free (0BB) Stringer sales for 2026 through 2032. With Busbar-free (0BB) Stringer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Busbar-free (0BB) Stringer industry.

This Insight Report provides a comprehensive analysis of the global Busbar-free (0BB) Stringer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Busbar-free (0BB) Stringer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Busbar-free (0BB) Stringer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Busbar-free (0BB) Stringer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Busbar-free (0BB) Stringer.

This report presents a comprehensive overview, market shares, and growth opportunities of Busbar-free (0BB) Stringer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

? 7000 half-cell/hour

> 7000 half-cell/hour

Segmentation by Application:

TOPCon

HJT

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Maxwell Technologies

Autowell

Lead Intelligent Equipment Co., Ltd.

Ningxia XN Automation Equipment Co., Ltd.

Shenzhen Guangyuan Intelligent Equipment Co. ,Ltd.

Hangzhou ConfirmWare Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Busbar-free (0BB) Stringer market?
What factors are driving Busbar-free (0BB) Stringer market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Busbar-free (0BB) Stringer market opportunities vary by end market size?
How does Busbar-free (0BB) Stringer break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

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