



MODERNIZATION SOLAR

Dual-wave or dual-glass modules





Overview

What is a dual-glass module?

Dual-glass type modules (also called double glass or glass-glass) are made up of two glass surfaces, on the front and on the rear with a thickness of 2.0 mm each. Some manufacturers, in order to reduce the weight of the modules, have opted for a thickness of 1.6 mm. Dualsun has chosen to stay with a thickness of 2.0 mm for reasons explained below.

What is a double glass module?

In contrast, double glass modules replace the polymer layer with another glass sheet, creating a robust sandwich structure. At IBC SOLAR, we use 2,0 mm x 2,0 mm glass layers, whereas some other market offerings use thinner 1,6 mm x 1,6 mm layers. This ensures greater durability and longevity.

What is a double glass solar module?

In the ever-evolving world of photovoltaic technology, double glass solar modules are emerging as a game-changer. By encapsulating solar cells between two layers of glass, these modules offer unparalleled durability and efficiency. But what exactly sets them apart?

What are double glass solar modules?

What is the bifaciality of a double glass module?

Bifaciality: The bifaciality of double glass modules produces a gain of around 10-11% compared to the power measured on the front panel alone, for TOPCon type modules under so-called BNPI (bifacial nameplate irradiance) test conditions.



Dual-wave or dual-glass modules



What are the advantages of dual-glass Dualsun modules?

Nov 26, 2025 · The thickness of the front glass generally used for this type of structure is 3.2 mm. Dual-glass type modules (also called double glass or glass-glass) are made up of two glass ...

Are 78 Half

5 days ago · References: Industry reports on solar module performance and suitability for large - scale projects. Technical specifications of 78 Half - cell Dual - wave Modules, 48 Half - cell

...



The Difference Between Single Glass Solar Modules And Double Glass

While dual-glass solar modules offer superior durability and thermal performance, they have a higher initial cost compared to single-glass modules. The additional materials and ...

Single-glass versus double-glass: a deep dive into module ...

Oct 2, 2024 · Left: a double-glass module; right, a bifacial single-glass module. The wave of industrial consolidation is growing ever more pronounced, shaping the landscape with each ...



[Glass/Backsheet or Bi-glass TOPCon ?](#)

Feb 25, 2025 · The evolution of photovoltaic module structures has been marked by the transition from glass-backsheet to dual-glass, largely driven by durability concerns and the rise of bifacial ...



[Glass/Backsheet or Bi-glass TOPCon](#)

Feb 25, 2025 · The evolution of photovoltaic module structures has been marked by the transition from glass-backsheet to dual-glass, largely ...



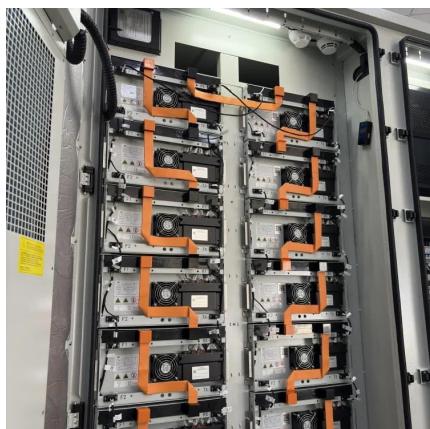
[TRANSPARENT BACKSHEET VS. DUAL GLASS WHITE ...](#)

Nov 2, 2025 · VS. DUAL GLASS WHITE PAPER but customers have a choice between transparent backsheet bifacial modules (TB) and dual glass bifacial modules (GG). This white ...



For N-type Bifacial Technology, Dual Glass Structure is ...

Feb 28, 2023 · A glass/backsheet structure works well with conventional PERC modules due to its lightweight, whereas a glass/glass structure has the potential to generate additional energy for ...



Double the strengths, double the benefits

Feb 21, 2025 · Enhanced durability Material resilience: Glass inherently resists aging, ensuring that modules maintain performance over decades. Mechanical robustness: The dual-glass ...



Double-glass modules and bifacial dual-wave modules

What is a dual glass module? Our dual glass modules use the same internal circuit connection as a traditional glass-backsheet module but feature heat-strengthened glass on both sides. We ...



Why Dual-Glass Is Not the Same as Bifacial: A Guide to ...

Nov 25, 2025 · An explanation of the structural differences between dual-glass and bifacial solar modules, the mechanism behind rear-side power generation, and suitable application ...



Double the strengths, double the benefits

Feb 21, 2025 · Enhanced durability Material resilience: Glass inherently resists aging, ensuring that modules maintain performance over decades. ...



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