

# **Dual-wave or dual-glass modules**





## Overview

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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?

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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

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### 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 ...



### 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 ...



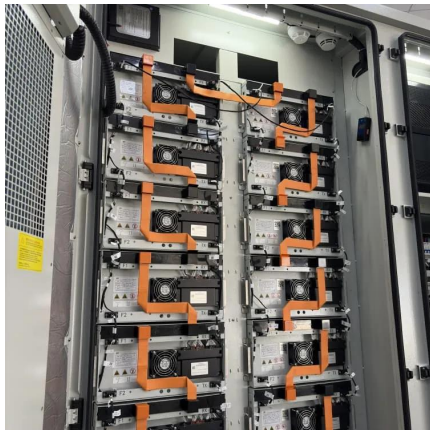
### TRANSPARENT BACKSHEET VS. DUAL GLASS WHITE ...

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-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 ...

## 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 ...



## 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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