

# What is a lightweight double-glass module





## Overview

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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.

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.



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### Glass-Glass PV Modules

Glass-Glass module designs are an old technology that utilises a glass layer on the back of modules in place of traditional polymer backsheets. They were heavy and expensive allowing for the lighte...

### [What is the Double Glass Photovoltaic Solar Panel?](#)

Glass-glass module structures (Dual Glass or Double Glass) is a technology that uses a glass layer on the back of the modules instead of the traditional polymer backsheet. Originally ...



### [What are the advantages of dual-glass Dualsun modules?](#)

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 ...

### [2025 Complete Guide to Glass-Glass Solar Panels: The Top ...](#)

A comprehensive analysis of the structural principles, performance advantages, and typical application scenarios of glass-glass PV modules, aligned with 2025 market trends in ...



### [2025 Guide to Dual-Glass Solar Modules:](#)

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Complete guide to dual-glass solar panels: applications, benefits, costs & limitations. Learn when this premium technology provides genuine value vs conventional panels.



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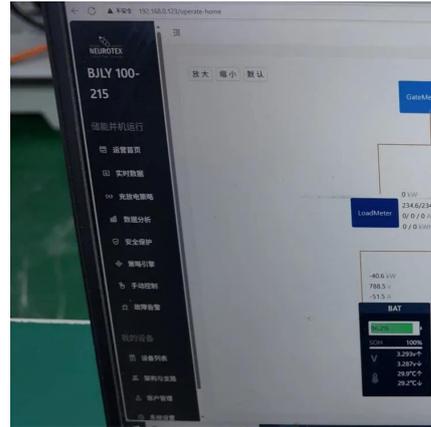
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### What is a double glass solar panel? , NenPower

Double glass solar panels feature a construction that includes glass on both the front and back sides, significantly bolstering their durability. This design protects sensitive ...



### What is a double glass solar panel? , NenPower

Double glass solar panels feature a construction that includes glass on both the front and back sides, significantly bolstering their durability. This design protects sensitive components from harsh environmental ...

### 2025 Guide to Dual-Glass Solar Modules: When Premium ...

Complete guide to dual-glass solar panels: applications, benefits, costs & limitations. Learn when this premium technology provides genuine value vs conventional panels.



### A Complete Guide to Solar Module Glass

As solar technology continues to advance, solar module glass has become one of the most critical components determining the performance, durability, and long-term reliability ...



### Double the strengths, double the benefits

Superior protection; Environmental shielding: Double glass modules provide excellent defense against moisture, corrosion, and UV radiation, reducing the risk of potential-induced degradation (PID). ...



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