

Differences between bifacial single-glass modules and bifacial double-glass modules

Source: <https://www.esafet.co.za/Wed-13-Oct-2021-18931.html>

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Generated on: 2026-03-06 10:51:15

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Are bifacial double-glass modules a good choice?

There has been a notable shift from the initial single-facial single-glass modules to bifacial double-glass modules. Double-glass modules, with their performance in the face of salt mist, high temperatures and high humidity, have won the market's favour. However, this trend is not without its risks.

What is bifacial glass technology?

Bifacial glass technology is the preferred material among manufacturers for the rear side cover of the modules. Some key advantages of the glass-glass structure are: Glass-glass modules can also be frameless, which helps eliminate the cost of an extruded aluminum frame. However, glass-glass models with frames have a lower risk of breakage.

What is a bifacial G-B module?

Bifacial G-B modules use a 3.2 mm-thick tempered glass on the front, delivering superior impact strength and durability in comparison to the 2 mm-2.1 mm thick heat-treated glass typically used in G-G modules. The glass used in PV modules generally has a UV transmittance of 40%-50%.

How are bifacial solar panels made?

There are two common methods for making bifacial solar PV modules: The first involves using glass layers on both the front and rear sides of the panel, referred to as "Glass-Glass PV Modules," "Double Glass PV Modules," or "Dual-Glass PV Modules."

This guide provides clear decision frameworks for choosing between bifacial's energy gains, glass-glass's durability, or custom solutions when standard panels won't work.

In photovoltaic modules, single-glass, dual-glass and bifacial are not concepts of the same category. Bifacial refers to a power-generation mechanism. Whether a module can generate...

Thanks to improvements in module stiffness and the better support of dual-glass design, the deformation of our dual-glass modules is much lower than that of traditional modules with frames ...

For single glass PV modules, all the parameters mentioned above are better than double glass modules, indicating that outdoor performance of single glass PV modules is superior to double ...

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Whereas for Raytech double-glass solar modules, with the increased strength brought by two layers of glass, a lot less deformation will happen in the solar cells, the possibility of microcracks formed on ...

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

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Monofacial modules use opaque back sheets while bifacial modules often incorporate transparent or translucent back sheets or dual-glass designs. Because they capture sunlight on both ...

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