

SolarTech Power Solutions

New Energy Double-Glass Bifacial Modules



Overview

Are double glass modules bifacial?

Dual-sided energy Capture: Many double glass modules are bifacial, allowing them to harness sunlight from both sides. This can lead to energy gains of up to 25%, especially when installed over reflective surfaces.

Why are double glass solar panels bifacial?

Thermal stability: The identical thermal expansion coefficients of the glass layers minimize stress on solar cells during temperature fluctuations. Dual-sided energy Capture: Many double glass modules are bifacial, allowing them to harness sunlight from both sides.

Do bifacial modules generate the same energy as monofacial panels?

Bifacial modules, which produce power from both sides of the glass, generate the same amount of energy from their frontside as monofacial panels. If bifacial modules eke out even the smallest amount of generation from their backside, that's just bonus without even trying.

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?

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How are bifacial solar cells encapsulated?

Bifacial solar cells can be encapsulated in modules with either a glass/glass or a glass/ transparent backsheet structure.

Do bifacial modules increase energy yield?

Adding complexity to a module comes with the increase of possible degradation mechanisms, requiring more thorough testing, e.g., for rear side PID (Potential Induced Degradation). We show that with the use of bifacial modules in fixed tilt systems, gains in annual energy yield of up to 30% can be expected compared to the monofacial equivalent.

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