

SolarTech Power Solutions

Double-glass module s own advantages



Overview

Glass-glass solar modules (bifacial modules) increase energy production by approximately 2% to 5% compared to traditional glass-backsheet modules, thanks to their ability to capture light from both sides. Why should you choose a double glass module?

Mechanical robustness: The dual-glass structure offers exceptional resistance to mechanical loads, such as wind and snow, making them ideal for challenging environments. **Environmental shielding:** Double glass modules provide excellent defense against moisture, corrosion, and UV radiation, reducing the risk of potential-induced degradation (PID).

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 are the advantages of double glass solar panels?

Environmental shielding: Double glass modules provide excellent defense against moisture, corrosion, and UV radiation, reducing the risk of potential-induced degradation (PID). **Thermal stability:** The identical thermal expansion coefficients of the glass layers minimize stress on solar cells during temperature fluctuations.

Why are double glass modules symmetrical?

Mechanical constraints on cells: the fact that the structure of the double glass modules is symmetrical implies that the cells are located on a so-called neutral line, the upper part of the module being in compression during a

downward mechanical load and the lower glass surface being in tension.

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.

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.

Double-glass module s own advantages

Contact Us

For catalog requests, pricing, or partnerships, please visit:
<https://www.zegrzynek.pl>