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Belgian double-glass modules

Overview

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?

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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.

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.

Are double glass modules a risk factor for PID?

Double glass modules, due to the hermeticity of their structure, present less risk of PID. This phenomenon can be avoided by the use of an appropriate encapsulation material and by quality control reinforced by tests in climatic chambers.

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While double glass modules offer numerous benefits, it's essential to consider factors such as weight and installation requirements. Advancements in manufacturing have led to lighter designs, but proper ...

Glass glass Solar modules are exceptionally durable. The double-glass design protects against environmental stressors, including heavy snow loads, high winds, and hail. This robustness ...

The high-performance module Q.PEAK DUO ML-G12S/BFG is the ideal solution for commercial and utility applications thanks to a combination of its innovative Q.ANTUM DUO technology ...

Belgium-based PV module manufacturer Belinus has launched an ultra-black double-glass bifacial heterojunction solar module for residential applications.

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Compared to traditional single glass modules, double glass modules offer significant advantages, particularly in terms of efficiency and durability. The rear glass layer can absorb reflected light, ...

As a high-quality manufacturer and supplier of Double Glass Solar Panels, solar modules, and Solar Panels, we provide you with high-quality products and PV module

customization services.

500W N-type Bifacial Dubbele Beglazing Mono LB All Black MC4.

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Are double-glass PV modules durable?Double-glass PV modules are emerging as a technology which can deliver excellent performance and excellent durability at a

competitive cost. In this ...

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