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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 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 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.

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.

This follows the company's maiden solar panel launched at the end of 2022, also with German polysilicon. This full black double glass solar module uses polysilicon sourced ...

Technical problems such as manufacturing yield, extra weight and the lack of frame support were solved by selecting a double heat-strengthened glass structure with a thickness of 2.5mm (or ...

German renewable energy startup 1Komma5&#176; has launched a tunnel oxide passivated contact (TOPCon) solar module made with ...

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 ...

1KOMMA5&#176; announces the launch of its new 1KOMMA5&#176; Full Black double-glass solar module. The company is the only German ...

German renewable energy startup 1Komma5&#176; has launched a tunnel oxide passivated contact (TOPCon) solar module made with German polysilicon. The company said ...

Engineered for performance and longevity, the new module is built with advanced N-Type TOPCon technology and a robust double-glass design featuring 2 mm glass on both ...

But what exactly sets them apart? What are double glass solar modules? Traditional solar panels typically feature a glass front and a polymer backsheet. In contrast, ...

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

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Recently several double-glass (also called glass-glass or dual-glass modules) c-Si PV modules have been launched on the market, many of them by major PV manufacturers.

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