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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.

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 ...

There are frameless double glass modules that reveal the back side of the cells, but are not double-sided. True bifacial solar panels have contacts / busbars on both the front and rear of ...

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, ...

In summary, the double-glass construction of bifacial solar panels results in a highly durable, stable, and resilient module that withstands mechanical loads, thermal cycling, and ...

Dual glass is the preferred structure for the rear side cover of the N-type modules because the glass-glass version can maximize the advantages of the N-type.

Double-glass modules boast increased reliability, especially for utility scale PV projects. These include better resistance to higher temperatures, ...

Better light trapping with multi busbar decreasing resistance and power loss. Better resistant to harsh environments - salt, ammonia, high humidity and temperature.

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Significant amount of near infrared light passes through bifacial cells. Double-glass structure shows a loss of ~ 1.30% compare to the glass/backsheet structure under STC measurements.

These modules use a sheet of tempered glass at the rear of the module instead of the conventional polymer-based backsheet. There are several reasons why this structure is ...

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