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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 paper a glass-glass module technology that uses liquid silicone encapsulation is described. The combination of the glass-glass structure and silicone is shown to lead to exceptional durability.

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 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 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.

Our dual glass panels meet all safety requirements, both flexibility, double insulation, or high resistance to UV rays, very long durability by not having elements that degrade in the face of ...

Unlike standard solar modules, dual-glass solar modules are covered with glass not only on the front but also on the back. This design offers not only aesthetic advantages but also technical ...

This report provides comprehensive coverage of the double glass PV module market, segmented by application (residential, commercial, PV power station, others), type ...

Our dual glass panels meet all safety requirements, both flexibility, double insulation, or high resistance to UV rays, ...

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

While double glass modules offer numerous benefits, it's essential to consider factors such as weight and installation requirements. ...

In this paper a glass-glass module technology that uses liquid silicone encapsulation is described.

The bifacial dual sided glass module (G2G) generates more electricity by converting direct, radiant and scattered solar energy on both the front and the back side of the module.

Compared to traditional glass-backsheet modules, they offer greater durability and environmental resistance. The dual-glass structure ...

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.

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

POE (Polyolefin Elastomer), the preferred solution for dual-glass modules. As these materials have different chemical compositions, the lamination parameters and expected properties, ...

Compared to traditional glass-backsheet modules, they offer greater durability and environmental resistance. The dual-glass structure provides enhanced protection for solar ...

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