

PDEOZE PowerContainer

Estonia double glass modules



Overview

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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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.

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.

What is the thickness of a glass module?

The thickness of the front glass generally used for this type of structure is 3.2 mm. 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.

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Metsolar produces unlimited variety of tailored BIPV solar panels for Estonia and other regions of EU, that are efficient, cost competitive and have exclusive design possibilities.

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Double Glass is especially important in photovoltaic facilities such as solar power plants and with the expected long service life of modules such as AKCOME, Jineryg or Jolywood.

Glass/Glass modules withstand air and moisture and offer best cell protection, while plastic backsheets of glass/foil modules become porous. The Glass/Glass composite protects solar cells against micro cracks and ...

Discover the strategic case for manufacturing solar modules in Estonia. Learn how specialized panels engineered for snow and low light can win the Nordic market.

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