

SolarInnovate Energy Solutions

Belgian double glass modules



Overview

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 glass-glass module technology?

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. The concept enables safe module operation at a system voltage of 1,500V, as well as innovative, low-cost module mounting through pad bonding.

How much power does a dual-glass module use?

“The use of thinner glass reduces the workloads of the installation compared to standard dual-glass products, while withstanding high wind and snow loads.” The module features a nominal power of 400 W and a power conversion efficiency of 22.0%. The open-circuit voltage ranges from 44.7 V and the short-circuit current is 10.7 A.

What is a double glass c-Si PV module?

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. 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 appealing.

What is the M8 nLite ultra black double glass module?

The M8 nLite Ultra Black Double Glass Module panel is based on 166 mm x 83

mm monocrystalline solar cells sourced in Thailand and 1.6mm thin double glass. “All our products rely on our proprietary heat-strengthened glass processing technology called nLite technology,” the spokesperson explained.

Where are Belinus solar panels made?

“All solar cells and solar panels produced by Belinus are manufactured in Bloomberg Tier-1 factories with a combined annual capacity of 2,2 GW in Vietnam and Turkey,” a company's spokesperson told pv magazine.

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BELINUS: INNOVATIVE HIGH EFFICIENCY ULTRA-BLACK & DOUBLE GLASS ...

Feb 21, 2022 · Started in 2015 as a solar panel engineering and quality inspection service company, Belinus is a Belgian technology company with its headquarters in Leuven, Belgium, ...

What are the advantages of dual-glass Dualsun modules?

Aug 18, 2025 · 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 ...



BELINUS: INNOVATIVE HIGH EFFICIENCY ULTRA-BLACK & DOUBLE GLASS ...

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Belgian manufacturer unveils 400 W black glass-glass

Aug 25, 2022 · Belgium-based PV module manufacturer Belinus has launched an ultra-black double-glass bifacial heterojunction solar module for residential application???:???? ...



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Belgium to Become GW-Scale PV Market with PV Installed ...

Mar 1, 2021 · Belgium, the central European country will have an installed capacity of about 1010 MW in 2020, setting a record in terms of new solar installation deployment. By the end of ...

What is the difference between a double-sided double-glass ...

May 22, 2025 · The difference between double-sided double-glass n-type monocrystalline solar photovoltaic module and ordinary components is reflected in multiple dimensions, from core ...



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