

Rooftop photovoltaic double glass modules





Overview

What are the different types of photovoltaic modules?

Two types of photovoltaic module structures coexist: Glass-polymer film (also called glass-backsheet) type modules. They are made of glass on the front side and polymer film on the rear side.

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.

Why are double glass modules symmetrical?

Mechanical constraints on cells: the fact that the structure of the double glass modules is symmetrical implies that the cells are located on a so-called neutral line, the upper part of the module being in compression during a downward mechanical load and the lower glass surface being in tension.

Is double glass a good choice for a PV farm?

Regarding the moisture issue, the main argument against double glass modules is addressed by the use of polyolefins as encapsulating substances. The problem is further solved by the execution, as confirmed by e.g. PVEL tests.

Are double-sided PV modules better than mono PERC modules?

Double-sided PV modules inherit all the advantages of mono PERC modules: high power density resulting in significant BOS savings, high energy yield with better performance in low light and lower temperature coefficient. In addition, double-sided PERC modules also collect energy from the rear side, showing a higher energy yield.



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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[Frameless Dual-Glass Panels for Rooftop Installations , Trina Solar](#)

The DUOMAX 40 and 60-cell modules offer reliable and durable energy generation for your home or business. The heat strengthened dual-glass design enables greater reliability and durability ...

[What are the advantages of dual-glass Dualsun modules?](#)

To summarize the advantages cited above, the choice of a double glass structure means that the photovoltaic cells are better protected from external stress, in particular from the penetration of ...



[Comparison of Glass/Glass and Glass/Backsheet PV Modules Using Bifacial](#)

Furthermore, in order to compensate for the lower performance of glass/glass modules under STC, we propose a methodology to measure and fairly rate bifacial glass/glass photovoltaic ...

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