Algiers double glass 310 module parameters

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.

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.

What are the disadvantages of dual-glass modules?
However,dual-glass modules have certain disadvantages that are important to take into consideration during the product design phase. One of the main disadvantages concerns the hail resistance. To simplify,the hail resistance of a photovoltaic panel is mainly linked to that of its upper layer.

Thanks to this approval, our solar glass is now considered a regulated building product (analogous to classic LSG glass) and no longer requires individual approval for each project.

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. The ...

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, ...

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This manual covers the requirements for the cleaning procedure of Canadian Solar double glass photovoltaic modules. The purpose of these cleaning guidelines is to provide general ...

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This paper deals with the performances of a polycrystalline PV module manufactured by Photowatt, when working under meteorological conditions prevailing near Algiers, in the ...

With mature support and inverter scheme, customized design for industrial and commercial and centralized ground power stations. Mono MBB half cut technology Double-sided electricity ...

The numerical model takes the heat balance equations and different thermal and electrical parameters into account for each configuration included in this study, the energy performances ...

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

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 ...

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