

# Double glass module weight





## Overview

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How much does a glass module weigh?

The weight of glass-glass modules are still an issue, with current designs using 2 mm thick glass on each side for framed modules, the weight is about 22 kg, while 2.5 mm on each side will increase the module's weight to 23 kg. Compared to traditional glass-foil modules, which are about 18 kg, this is a 20% increase in weight.

What is a double glass module?

The double glass module design offers not only much higher reliability and longer durability but also significant Balance of System cost savings by eliminating the aluminum frame of conventional modules and frame-grounding requirements. The application of double-glass modules covers multiple markets including utility, residential and commercial.

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 solar module?

**ABSTRACT:** Double-glass modules provide a heavy-duty solution for harsh environments with high temperature, high humidity or high UV conditions that usually impact the reliability of traditional solar modules with backsheet material.

How long will a glass-glass module last?

Therefore, over a 30 year lifetime it can be expected to still operate at 85% of the nameplate capacity. The weight of glass-glass modules are still an issue,



with current designs using 2 mm thick glass on each side for framed modules, the weight is about 22 kg, while 2.5 mm on each side will increase the module's weight to 23 kg.

Why are double-glass modules important?

Double-glass modules have increased resistance to cell micro-cracking, potential induced degradation, module warping, degradation from UV rays, and sand abrasion, as well as alkali, acids or salt mist.



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[White Paper on Module Based on 182mm Wafer Optimal ...](#)

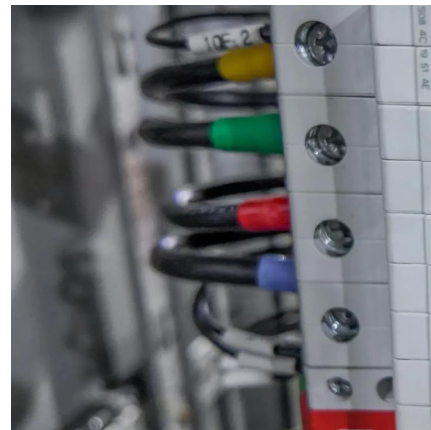
In consideration of module cost and weight control, the glass thickness of the bifacial double-glass PV module is preferably 2mm. On the premise of 2 + 2mm double-glass structure and ...

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### Single-glass versus double-glass: a deep dive into module reliability

As the industry moves towards thinner glasses to meet weight specifications and cost reduction goals, the challenge lies in maintaining the necessary impact resistance.

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[Specification Data Sheet Solar Panel Guide](#)

ZXM6-LD72 Series Znsinesolar 5BB Mono ZNSHINE SOLAR Double Glass Mono PV Module 72 Easy to install The module is very light in weight so the installation is easier and transport ...

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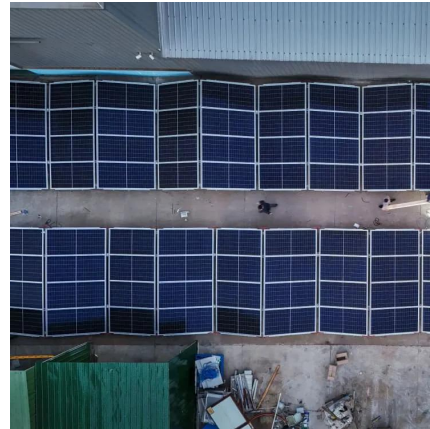
### ??? 158.9 JAM72D09 370-390 BP

Introduction JA bifacial modules are assembled by high-performance PERCIUM encapsulated by glass-glass panels, are capable of converting energy from lights on front and diffuse light, as



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[Transparent backplane and double-glass solar panels: ...](#)

The transparent backplane series launched by Solardeland can control the weight of double-sided modules to about 30kg, which is easy to install, but the double-sided double ...

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### **N-Type Bifacial Double Glass High Efficiency Mono Module ...**

JASOLAR 455w Higher power generation better LCOE N-Type with very Lower LID Better Temperature Coefficient Better low irradiance response 25-year product warranty 30-year ...

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By choosing heat strengthened glass panels on both sides, we have been able to use a thickness of 2.5mm and to demonstrate an excellent module resistance to all standard mechanical tests ...

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### **Light-weight explosion-proof double-glass photovoltaic module**

A double-glass photovoltaic and lightweight technology, applied in the field of solar photovoltaic power generation, can solve the problems of poor explosion-proof effect of explosion-proof ...

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