



LLSE CONTAINERS

# Requirements for the front and back glass of double-glass modules





## Overview

---

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 glass-glass module?

Glass-Glass module designs are an old technology that utilises a glass layer on the back of modules in place of traditional polymer backsheets. They were heavy and expensive allowing for the lighter polymer backsheets to gain the majority of the market share at the time.

Are double glass modules bifacial?

Dual-sided energy Capture: Many double glass modules are bifacial, allowing them to harness sunlight from both sides. This can lead to energy gains of up to 25%, especially when installed over reflective surfaces.

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.



## Requirements for the front and back glass of double-glass modules



### [Building-integrated photovoltaic applied Bi-facial ...](#)

Jun 1, 2024 · Most photovoltaic modules typically exhibit a structure configuration of either glass-to-back sheet or glass-to-glass. These configurations are widely used in standard construction ...

### [SolarSpace Double Glass Photovoltaic Modules ...](#)

Jun 17, 2025 · The modules can withstand a maximum load of 5400Pa on the front and 2400Pa on the back, the modules can withstand a maximum design pressure of 3600Pa on the front ...



### [Photovoltaic double-glass panel glass thickness ...](#)

How thick is front glass? for frameless designs, which can reduce costs dramatically. Figure 2 - Market share of different front glass thicknesses for modules, where majority front-glass only ...

## Key Requirements for Front and Back Glass in Double-Glass Solar Modules

Summary: Double-glass solar modules are transforming the renewable energy sector with enhanced durability and efficiency. This article



explores critical technical specifications, ...



### [Double the strengths, double the benefits](#)

Feb 21, 2025 · 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, ...



### [INSTRUCTIONS FOR PREPARATION OF PAPERS](#)

Nov 1, 2025 · 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 ...



### [JA Solar PV Bifacial Double-glass Modules Installation ...](#)

Nov 20, 2024 · The low/normal level of load condition is applicable to the installation in most of environmental conditions: the maximum static load on the back of the modules is 2400 Pa(i.e. ...



## Contact Us

---

For catalog requests, pricing, or partnerships, please visit:

<https://www.llsolarenergy.co.za>

**Scan QR Code for More Information**



<https://www.llsolarenergy.co.za>