



**SolarGrid Energy Solutions**

# **How thick is the double glass module**



## Overview

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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 (up to 6700 Pa), even without a frame, and a weight of 24kg, only 25% heavier than a standard module. 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.

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.

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 the thickness of a dualsun module?

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. In both configurations, the photovoltaic cells are laminated between the front and rear sides of the module using an encapsulation material.

Are double-glass solar modules reactive or non-reactive?

Furthermore, comparing to plastic backsheets (the back material of single-glass solar module) which are reactive, glass is non-reactive. This means that the whole structure of Raytech double-glass solar modules (two layers of glass and one layer of solar cells in the middle) are highly resistant to chemical reactions such as corrosion as a whole.

## How thick is the double glass module

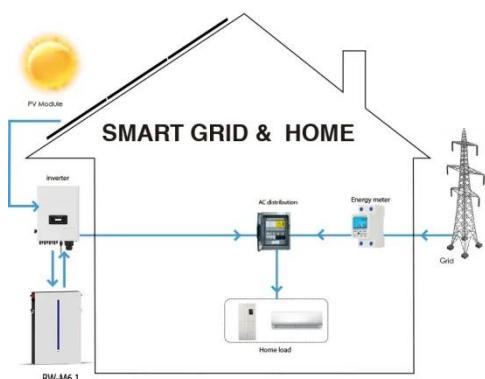


### How Thick Is Double Glazing? Easily Explained

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## What is Double Glazing?

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## Glass Thickness Guide

Glass is manufactured in a wide range of thicknesses for various applications. In addition to the type of glass, the edgework of the glass, and the style of ...



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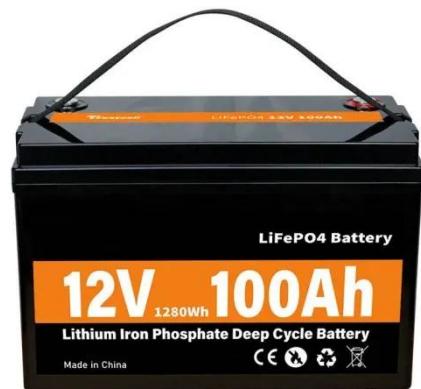
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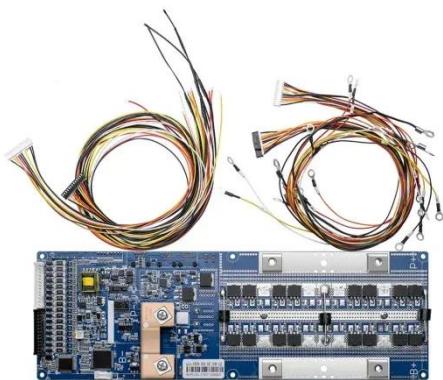
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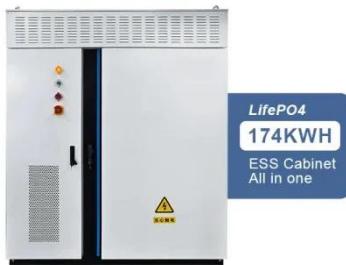
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## How long and wide are the double-glass modules

What are the differences between single-glass and double-glass For Raytech double-glass solar modules, there are two layers of tempered glasses covering

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## Expert Guide: Double Glazing Thicknesses

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## How about photovoltaic double glass panels

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



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## Product Specifications and Datasheets

Product Specifications and Datasheets  
Polysolar manufactures a wide range of different solar BIPV glass technologies designed to best meet the application ...

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## The Performance of Double Glass Photovoltaic Modules

Sep 1, 2017 · In recent years, with the rapid development of the photovoltaic industry, double glass module as a high reliability and high weather resistance

product is favored by many PV ...



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