



MODERNIZATION SOLAR

# Solar glass weight reduction box





## Overview

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What are the advantages of glass based solar panels?

Coating: Thin layers of coating may be deposited on one side of the glass for anti-reflection, improved conductivity or self-cleaning. For solar applications the main attributes of glass are transmission, mechanical strength and specific weight.

Why is glass used in photovoltaic modules?

Glass is used in photovoltaic modules as layer of protection against the elements. In thin-film technology, glass also serves as the substrate upon which the photovoltaic material and other chemicals (such as TCO) are deposited. Glass is also the basis for mirrors used to concentrate sunlight, although new technologies avoiding glass are emerging.

What are the characteristics of glass for solar applications?

For solar applications the main attributes of glass are transmission, mechanical strength and specific weight. Transmission factors measure the ratio of energy of the transmitted to the incoming light for a specific glass and glass width. Ratio of the total energy from an AM1-5 source over whole solar spectrum from 300 - 2,500nm wavelength.

What type of glass is used in solar panels?

Solar applications require flat glass. So-called Pattern Glass is mostly used as front glass in crystalline modules, whilst float glass is used for both substrate and back glass in thin-film modules. Molten glass is slowly cooled and fed off from the molten tin.



## Solar glass weight reduction box



### Transmittance and weight of solar panels with different thickness of glass

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### Glass Packaging Weight

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## Lightweight Photovoltaic Modules based on plastic leads to weight reduction

Lightweight photovoltaic modules based on plastics leads to upto 60% weight reduction when compared to glass-glass module same size.



Opens up several new possibilities for integration

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## Glass Packaging Weight

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## [Solar Glass & Mirrors, Photovoltaics , Solar Energy](#)

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