

# Light transmittance of glass sun room after installing solar panels





## Overview

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It is well known that excessive exposure to solar ultraviolet (UV) radiation can have serious adverse effects. Many everyday materials influence the UV radiation received by humans, for example, those.

Which sun protection devices can be installed in parallel with glazing?

The method is applicable to any type of sun protection devices in parallel with glazing, such as shutters or blinds. Sun protection devices can be installed inside a protected room, outside or in a gap between double glazing. The method is applicable in cases when total solar transmittance through glazing ranges between 0.15 and 0.85.

Can transparent insulation be used as a solar collector?

The models are capable of calculating optical properties at each layer in the system. Transmittance of up to 69% was calculated for whole system at 0° incidence angle. Transparent insulation materials (TIMs) can combine the advantages of opaque insulation with solar collection when applied to building facades.

What is spectral transmittance of materials in the UV band?

Spectral transmittance of the materials in the UV band in summer at 8 solar hour on 30-July. b. Spectral transmittance of the materials in the UV band in summer at solar noon on 30-July. All materials except fibreglass showed an exponential decay of transmittance in the UVB range from 300 to 315 nm.

Why does solar noon increase transmittance?

Another reason could be related to the mechanical properties of the materials, since thermal diffusivity is higher at a lower temperatures and this raises transmittance. At solar noon the temperature is higher, so that diffusivity is reduced and transmittance is higher.



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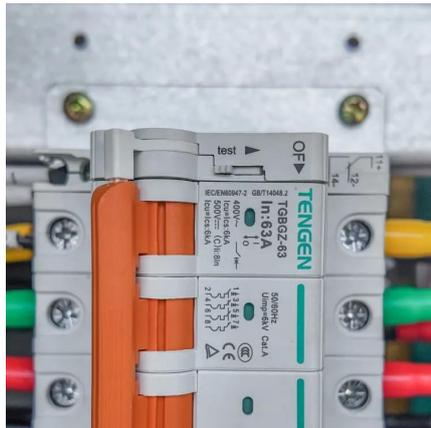
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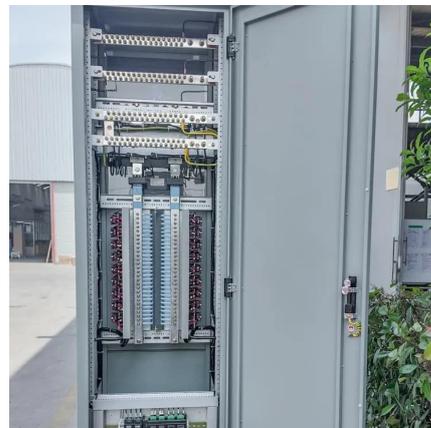


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