

Sunroom double glass component transmittance





Overview

How does glass transmittance affect solar heat gain?

The reduction of glass transmittance would affect the transmitted, absorbed, conducted and re-radiated solar radiation through the DSF structure, while natural ventilation had no effect on the transmitted light. STPV-DSF with the lowest glass transmittance ($\tau = 20\%$ outer skin) and external circulation achieved the lowest solar heat gain in summer.

Does low PV glass transmittance reduce solar heat gain?

Lowered PV glass transmittance and the realization of natural ventilation through the DSF structure would both contribute to the reduction of solar heat gain into the room context.

How does glass transmittance affect irradiation?

The glass transmittance affected all the solar heat transferring process through DSF while natural ventilation was almost transparent to irradiation.

How does glass transmittance affect the power generation efficiency?

This will in turn influence the PV module temperature and thus the power generation efficiency. The glass transmittance acts as an important factor affecting both the thermo-optical properties of the STPV unit itself and the overall performance of the combined system (STPV-DSF).



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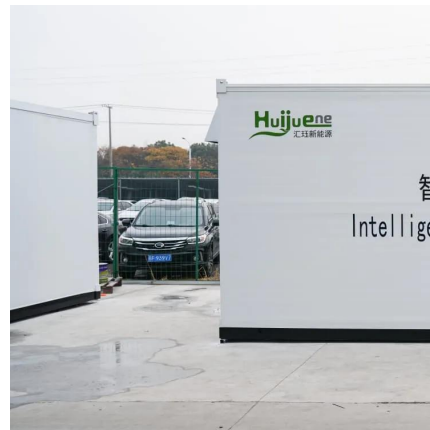


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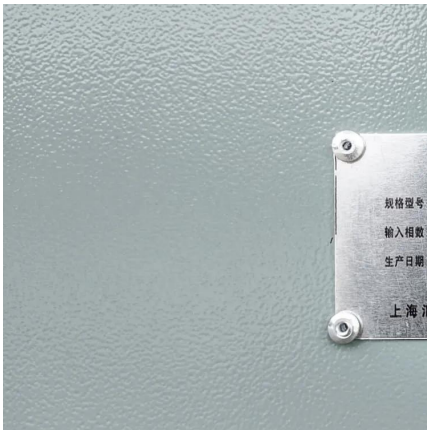


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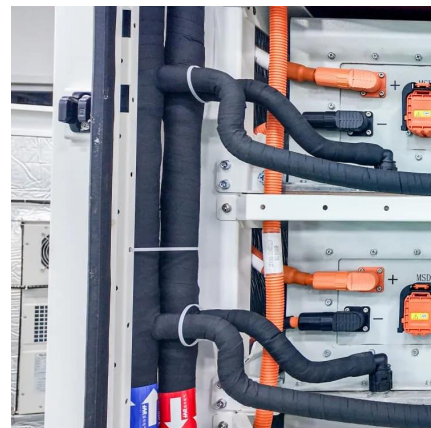
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