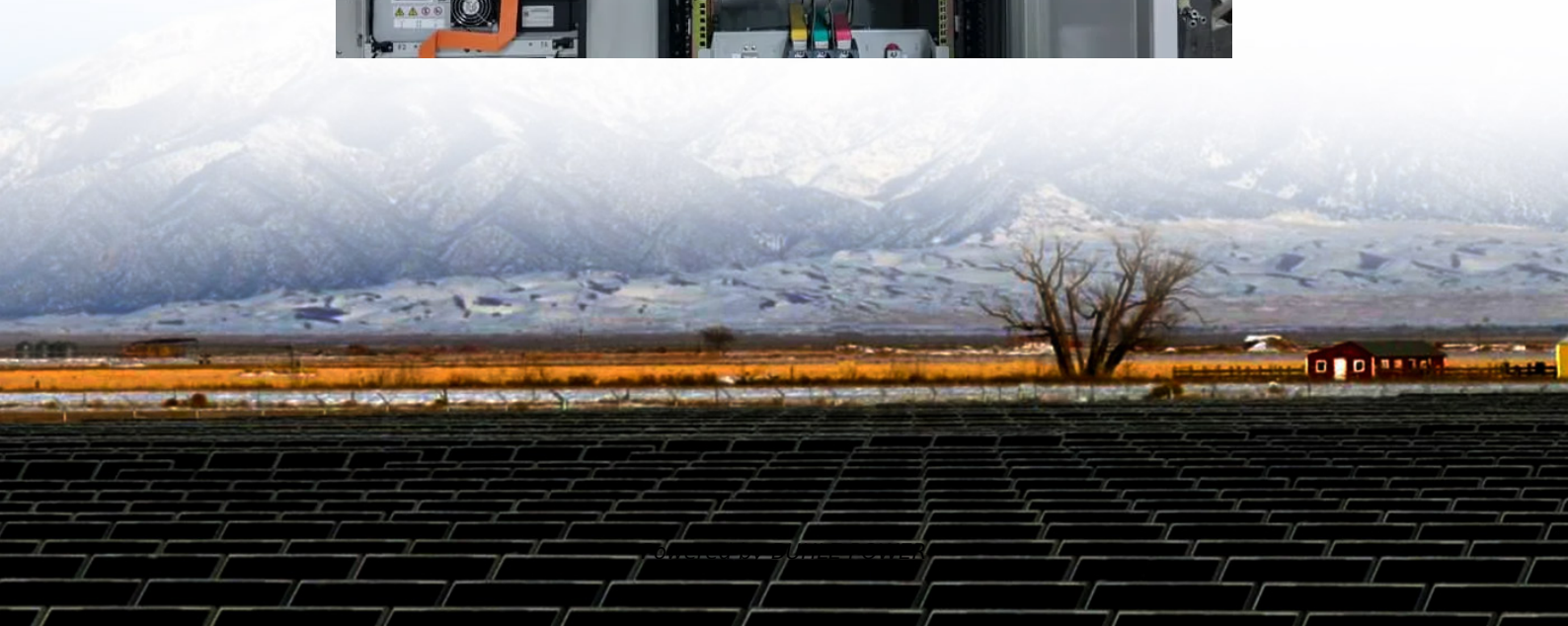


Double-glass component with a light transmittance of 10





Overview

What is visible light transmittance?

Visible Light Transmittance (T_v , %) is the percentage of incident light in the wavelength range of 380 nm to 780 nm that is transmitted by the glass.
Visible Light Outdoors/Indoors ($R_{e\ out/in}$, %) is the percentage of incident solar energy directly reflected by the glass.

What is the transmittance model of quartz glass?

The double thickness transmittance model n is the refractive index of quartz glass and the k is the absorption index of quartz glass. The light at each surface of the glass obeys Fresnel's law and Snell's law. Then the transmittance of quartz glass with thickness of L_1 and L_2 are shown in Eqs.

How is the transmittance of optical glass measured?

The transmittance of optical glass is measured using double beam spectral photometers from the company Perkin Elmer with special modifications. The standard setup enables to measure within a wavelength region from 250 nm up to 2500 nm. The measurement accuracy over the complete spectrum is about $\pm 0.5\%$.

What is the difference between visible light transmittance and visible light reflectance?

Visible Light Transmittance (T_v , %) is the percentage of incident light in the wavelength range of 380 nm to 780 nm that is transmitted by the glass.
Visible Light Reflectance Outdoors/Indoor ($R_{v\ out/in}$, %) is the percentage of incident visible light directly reflected by the glass.



Double-glass component with a light transmittance of 10

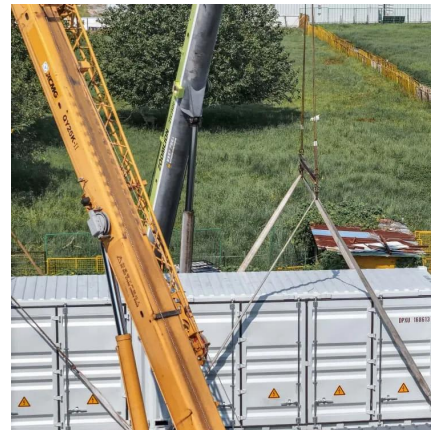


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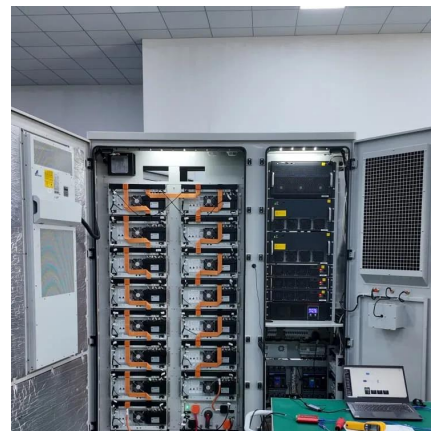
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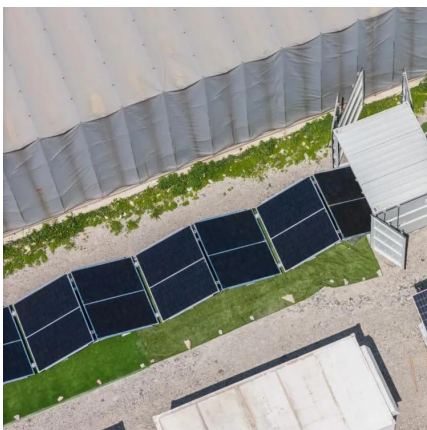
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