

The degree of solar glass warping exceeds the standard





Overview

Does heat-strengthening & tempering cause optical distortion?

With both heat-strengthening and tempering, it is possible that glass will develop either optical image distortion or anisotropy, which refers to patterns or visual effects in glass that are not considered defects.

How thick is a glass-glass PV module?

2.2. Glass characteristics Glass-glass PV modules generally use 2–3 mm thick glass layers, since thicker glass layers negatively impact the module's weight and costs, while trends are to reduce glass thickness to below 2 mm [10].

Does weathering damage glass PV modules?

In glass-glass PV modules the interlayer is often Polyolefin Elastomer (POE) encapsulant. Subsequent weathering of the encapsulant, such as the ingress of moisture, may decrease the strength of defected glass PV modules. This will reduce the lifetime of the module and cause corrosion of internal components [20].

Are glass-glass PV modules a problem?

Unfortunately, glass-glass PV modules are, similar to regular PV modules, subject to early life failures. A failure of growing concern are defects in the glass layer (s) of PV modules. The scale of decommissioned PV modules with glass defects will increase with the development of solar PV energy [7].



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