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Title: Double glass module transmittance

Generated on: 2026-03-11 07:11:05

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Are double-glass PV modules durable?

Double-glass PV modules are emerging as a technology which can deliver excellent performance and excellent durability at a competitive cost. In this paper a glass-glass module technology that uses liquid silicone encapsulation is described. The combination of the glass-glass structure and silicone is shown to lead to exceptional durability.

What is the transmittance of PV glass?

The transmittance of PV glass, which is the ratio of the light transmitted through it to the incident light varies with different PV coverage rates (area proportion of photovoltaic cells) and different materials of PV modules.

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).

What is a double glass c-Si PV module?

Recently several double-glass (also called glass-glass or dual-glass modules) c-Si PV modules have been launched on the market, many of them by major PV manufacturers. These modules use a sheet of tempered glass at the rear of the module instead of the conventional polymer-based backsheets. There are several reasons why this structure is appealing.

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May 26, 2025 · However, this study did not investigate the correlation between transmission and module power loss [6]. Literature often ...

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