

Downgraded double glass components





Overview

What is a double glass solar module?

In the ever-evolving world of photovoltaic technology, double glass solar modules are emerging as a game-changer. By encapsulating solar cells between two layers of glass, these modules offer unparalleled durability and efficiency. But what exactly sets them apart?

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Are double glass modules better than traditional modules?

Compared to traditional modules with backsheets, modules with double glass are stronger and more durable, presenting less degradation due to thermal cycling stress. Results from the thermal cycling test up to 400 cycles show about 35% to 43% less degradation with double-glass modules than with traditional modules with backsheets (Fig. 3).

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 backsheet. There are several reasons why this structure is appealing.

Why are double-glass modules important?

Double-glass modules have increased resistance to cell micro-cracking, potential induced degradation, module warping, degradation from UV rays, and sand abrasion, as well as alkali, acids or salt mist.



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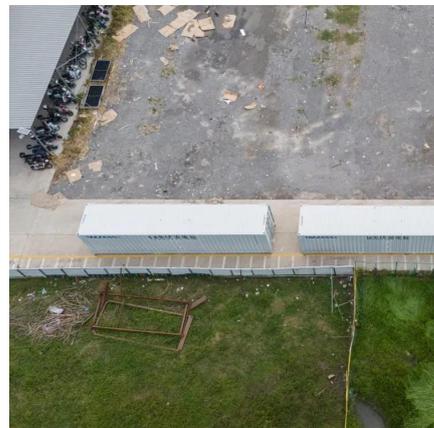
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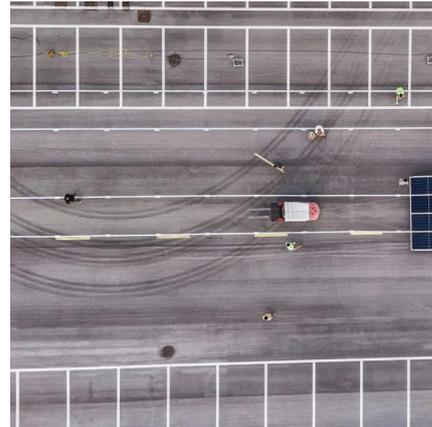
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