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# SHJ double glass module





## Overview

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What is a double glass module?

The double glass module design offers not only much higher reliability and longer durability but also significant Balance of System cost savings by eliminating the aluminum frame of conventional modules and frame-grounding requirements. The application of double-glass modules covers multiple markets including utility, residential and commercial.

What encapsulation structures are used in SHJ modules?

Four different encapsulation structures of the SHJ modules were tested, as shown in Figure 10. Standard G-G layout. Glass-free modules in which the front and rear glass plates were replaced by two ETFE foils. The surface of the ETFE foil exposed to the external environment had the classical hydrophobic property of fluoro-based polymers.

Do SHJ glass-glass modules degrade after 2000 H of DH aging?

Gnocchi et al. observed significant degradation (65% of Pmax losses) of SHJ glass-glass modules after 2000 h of DH aging compared to passivated emitter and rear contact (PERC) modules with the same glass and encapsulant that only showed slight degradation .

What encapsulants are used in SHJ PV modules?

When considering SHJ PV modules we want to stress that generally the industry uses polyolefin (PO)-based encapsulants rather than the widely employed, ethylene vinyl acetate (EVA), which is, however, less expensive and easier to process.



## SHJ double glass module

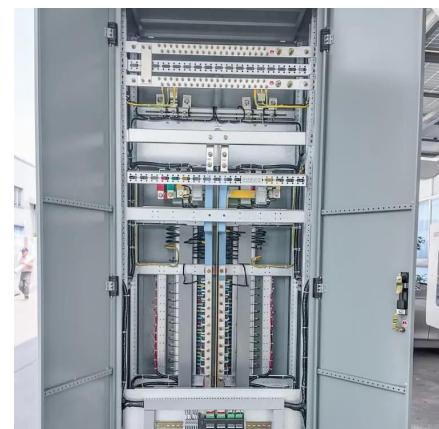


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Jan 17, 2024 · To rule out a potential contribution of the EVA encapsulant degradation to the observed loss in performance of SHJ modules, we analyzed the smaller  $10 \times 10 \text{ cm}^2$  ...

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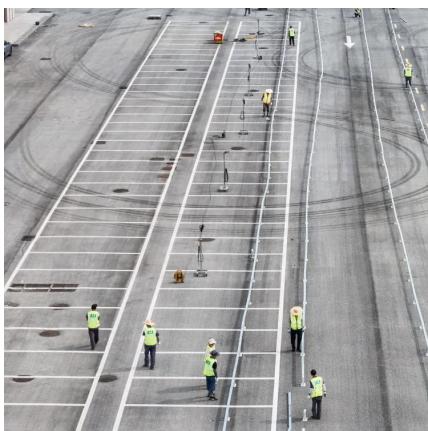
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...

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Power:695~740W Efficiency:23.18% Bifaciality rate: up to 95% Low attenuation: 1% ...



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