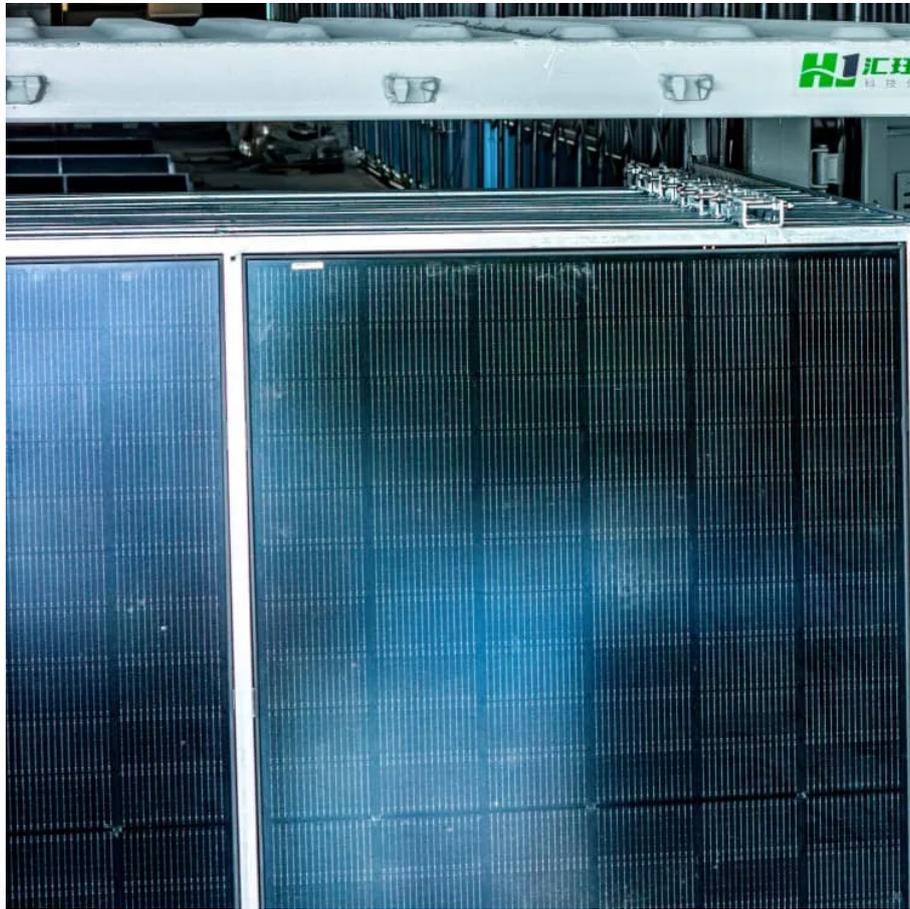


55 light-transmitting double-glass components





Overview

Why are chalcogenide glass fibers twined?

First, the fragility of the chalcogenide glass challenged the in situ twisting of the fibers during heating and tapering. Instead, the fibers were twined before clamping into the experimental system. The purging of nitrogen (or other inert gas) was essential for eliminating water vapors from the furnace chamber.

What is the difference between fluoroindate glass and ZBLAN glass?

However, despite the slightly higher thermal stability of fluoroindate glass ($T_g \approx 300\text{ }^\circ\text{C}$ for InF_3 and $T_g \approx 280\text{ }^\circ\text{C}$ for ZBLAN glass 40), it requires faster cooling rates of glass-forming melts than fluorozirconate glass. Contrary to ZBLAN in the fluorozirconate glass family, there is no golden standard for InF_3 -based glass composition.

What makes glasteel unique?

Glasteel is the only manufacturer in the world that produces this unique panel using a continuous process. Due to the Acrylic resin as well as the Acrylic Gel Coat protection, the light transmission values remain very stable over the course of many years.

What is ZBLAN glass?

The original ZBLAN glass attributes to the specific composition of 53% ZrF_4 , 20% BaF_2 , 4% LaF_3 , 3% AlF_3 , and 20% NaF .³⁷ At present, this term is attributed to a variety of glass compositions based on ZrF_4 , which are used interchangeably in modern literature.



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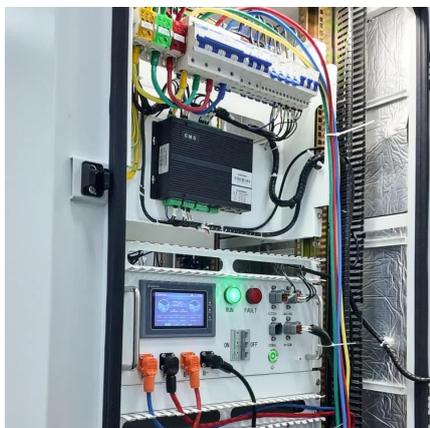
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