



BUHLE POWER

Austrian Cadmium Telluride solar Glass





Overview

What is cadmium telluride (CdTe) photovoltaic glass?

Cadmium Telluride (CdTe) photovoltaic glass is a type of solar photovoltaic glass that incorporates thin-film photovoltaic technology based on the semiconductor compound cadmium telluride.

Are polyimide solar cells better than glass?

The solar cells achieved an efficiency of 11 %. However, polyimide (PI) is less thermally stable compared to glass and may exhibit thermal expansion, which can cause delamination and degradation of the device. PI is also more susceptible to moisture and oxygen, which can degrade the effectiveness of the flexible CdTe solar cells . Fig. 4.

Which glass substrate is used in the production of CdTe solar cells?

Rigid glass substrates, such as soda-lime glass (SLG) [, ,] or borosilicate glass , have been traditionally applied in the production process of CdTe solar cells and are widely used among researchers.

Are ultra-thin glass substrates suitable for CdTe solar cells?

Ultra-thin glass substrates (UTG) have emerged as an alternative to rigid glass substrates for CdTe solar cells. UTG is recognized as a lightweight and flexible substrate material that is highly regarded for its remarkable optical and electrical properties, illustrated in Fig. 3 (b).



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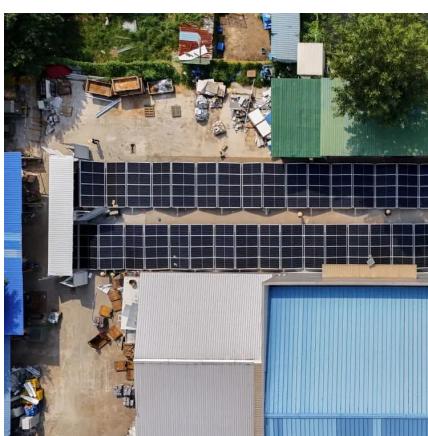
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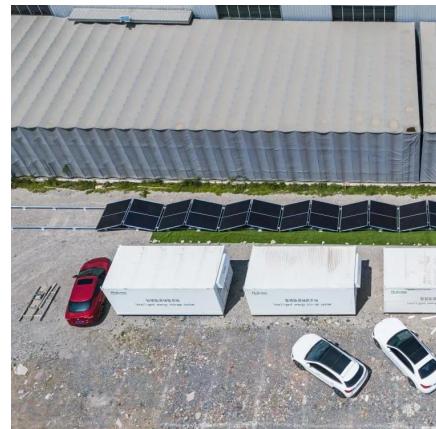


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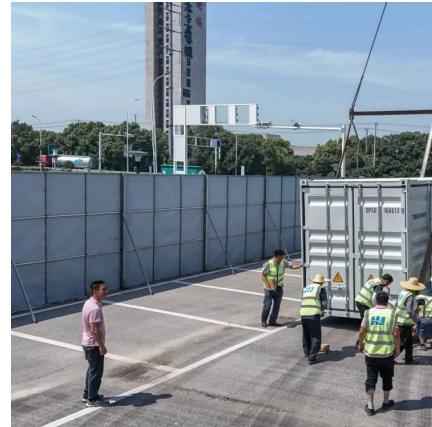
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