

# **Solar accessories for cadmium telluride glass**





## Overview

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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.

What are the advantages of cadmium telluride (CdTe) thin film solar cells?

1. Introduction Cadmium Telluride (CdTe) thin film solar cells have many advantages, including a low-temperature coefficient ( $-0.25\ \%/^{\circ}\text{C}$ ), excellent performance under weak light conditions, high absorption coefficient ( $105\ \text{cm}^{-1}$ ), and stability in high-temperature environments.

Which window material is used in CdTe solar cells?

CdS is the most used window material in conventional CdTe solar cells, but its main drawback is that the bandgap is about 2.4 eV. Consequently, incident light with wavelengths less than 510 nm is absorbed by the CdS layer, which reduces the spectral response of the CdTe solar cell in the short wavelength, resulting in a reduced  $J_{sc}$ .

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

Rigid glass substrates, such as soda-lime glass (SLG) [1, 2] or borosilicate glass [3], have been traditionally applied in the production process of CdTe solar cells and are widely used among researchers.



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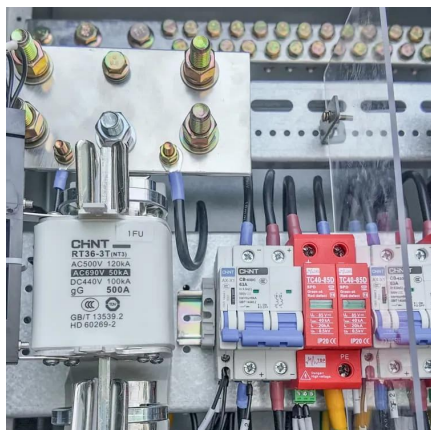


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