

Botswana thin film solar module glass





Overview

What are thin-film solar cells?

Solar cells made from the three aforementioned materials are called thin-film solar cells because the absorbers are only a few micrometres thick. Only 0.2 kg of the semiconductor materials is required as the absorber for modules with an output of 1 kW.

Which thin-film technology has the highest cell efficiency?

Today, CIS or CIGS technology is the thin-film technology with the highest levels of cell efficiency. ZSW used to be the record holder several times, last in 2016 with a record of 22.6%. The record stands now at 23.35 % (Solar Frontier). With this value, CIGS has the best qualifications for further strong market growth.

What is the surface area of a solar module?

Solar modules typically have a surface area between 0.7 and 1.6 m², but smaller or larger sizes can be produced if required. The materials researchers at ZSW are specialised in CIGS thin-film technology and the development of new material systems. Prof. Dr.-Ing. Michael Powalla Why CIGS?

// Why CIGS thin-film technology?

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What is a solar module?

This therefore creates a “solar module” in which the solar cells are protected against rain, hail and UV radiation for at least 20 years. Solar modules typically have a surface area between 0.7 and 1.6 m², but smaller or larger sizes can be produced if required.



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ZSW: Thin-film solar cells and modules

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The absorber (or the "electrical field" within the absorber) as well as the "front and rear contacts" can be found in every solar cell. Once the cells are produced, the individual solar cells are



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Energy Equipment Supplied In Botswana

Polysolar uses thin-film PV technology to manufacture our BIPV solar glass. The material is ideal for building integrated solutions, enabling us to produce transparent or opaque solar PV ...

Thin Film Photovoltaics

Thin Film PhotovoltaicsThin Film Photovoltaics Characteristics of thin film photovoltaics Thin film photovoltaic modules produce power at low cost per watt. They are ideal for large scale solar ...

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