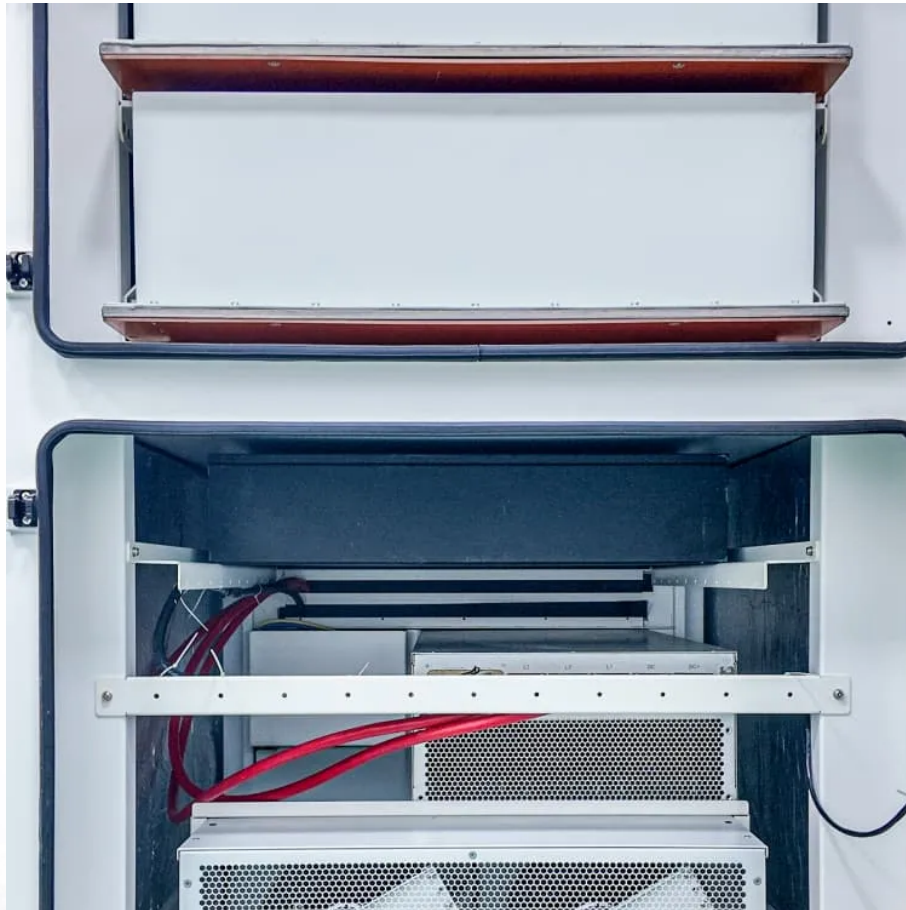


# **Are thin-film solar modules reliable**





## Overview

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Are thin film solar panels reliable?

The reliability of thin film is questionable in comparison with the emergence and production of competitive and low-cost crystalline silicon solar panels.

What are thin-film solar panels?

Thin-film solar panels use a 2<sup>nd</sup> generation technology varying from the crystalline silicon (c-Si) modules, which is the most popular technology. Thin-film solar cells (TFSC) are manufactured using a single or multiple layers of PV elements over a surface comprised of a variety of glass, plastic, or metal.

Are thin-film solar panels better than c-Si solar panels?

Since thin-film solar panels degrade at a much slower pace, they offer a potential alternative to the traditional c-Si solar panels, sometimes providing a better investment over time. Thin-film solar panels have many pros, while only holding a few cons to them. These are the most important pros and cons of this technology.

Why are flexible thin film solar panels so popular?

Like silicon wafers, the semiconductor material layered on top of the substrate uses the photovoltaic effect to convert light energy into electrical energy. One of the primary reasons for the growing popularity of flexible thin film solar panels is the ease with which they can be manufactured.



## Are thin-film solar modules reliable

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