

# **Solar thin film module complete set**





## Overview

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What are thin-film solar panels?

Thin-film solar panels are a type of photovoltaic (PV) panel that is made by depositing a thin layer of photovoltaic material, such as amorphous silicon, cadmium telluride (CdTe), or copper indium gallium selenide (CIGS), onto a substrate, such as glass, metal, or plastic.

What is a thin-film module?

This technology is highly flexible, durable, lightweight, and has excellent indoor and low-light performance. Thin-film modules are made by depositing a-Si onto a flexible polyimide substrate using proprietary roll to roll vacuum deposition and monolithic interconnect systems.

How thick is PowerFilm solar panels?

The substrate is as thin as 1mil (0.025mm) thick. Amorphous silicon is the absorber layer in the solar panels. The amount of silicon used in PowerFilm solar panels is as low as 1 percent of the amount used in traditional solar panels. PowerFilm has a strong environmental profile and is cadmium free.

What makes PowerFilm solar panels different from traditional solar panels?

Flexible yet durable polyimide substrate enhances flexibility, paper thinness, and lighter weight. The substrate is as thin as 1mil (0.025mm) thick. Amorphous silicon is the absorber layer in the solar panels. The amount of silicon used in PowerFilm solar panels is as low as 1 percent of the amount used in traditional solar panels.



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