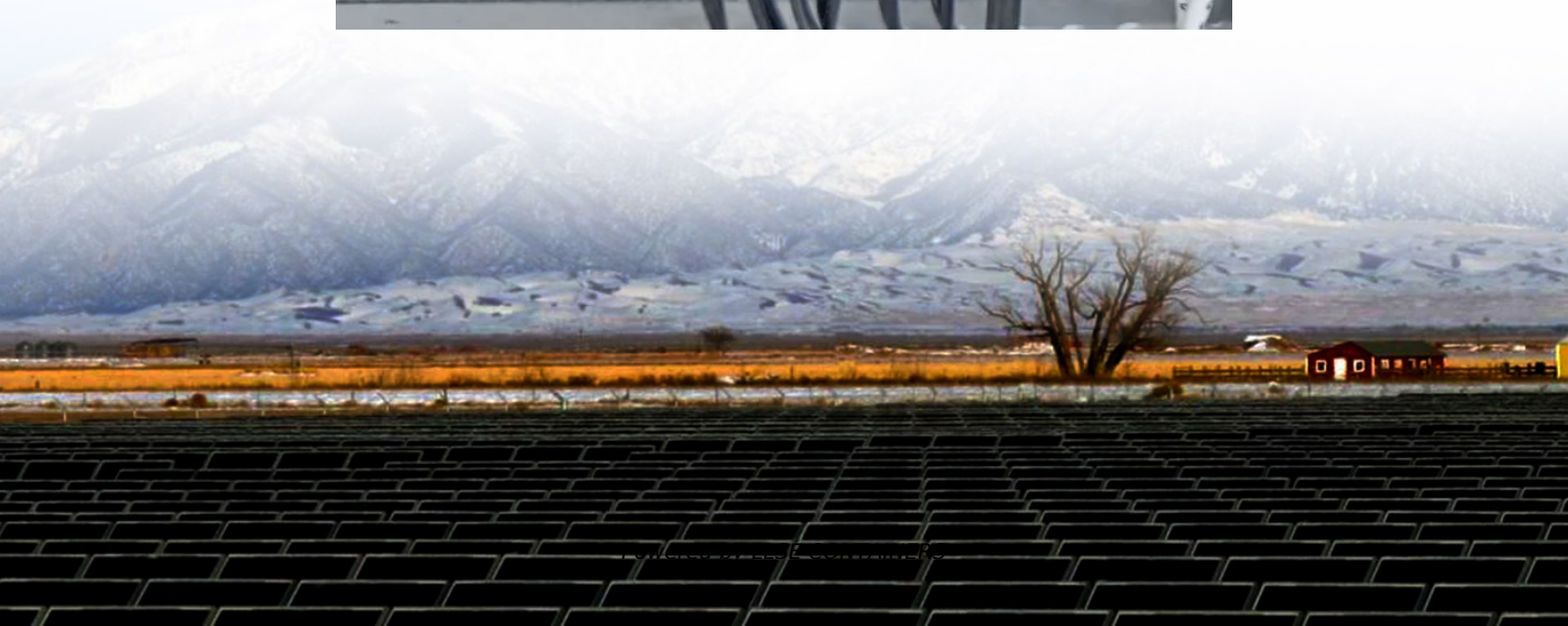
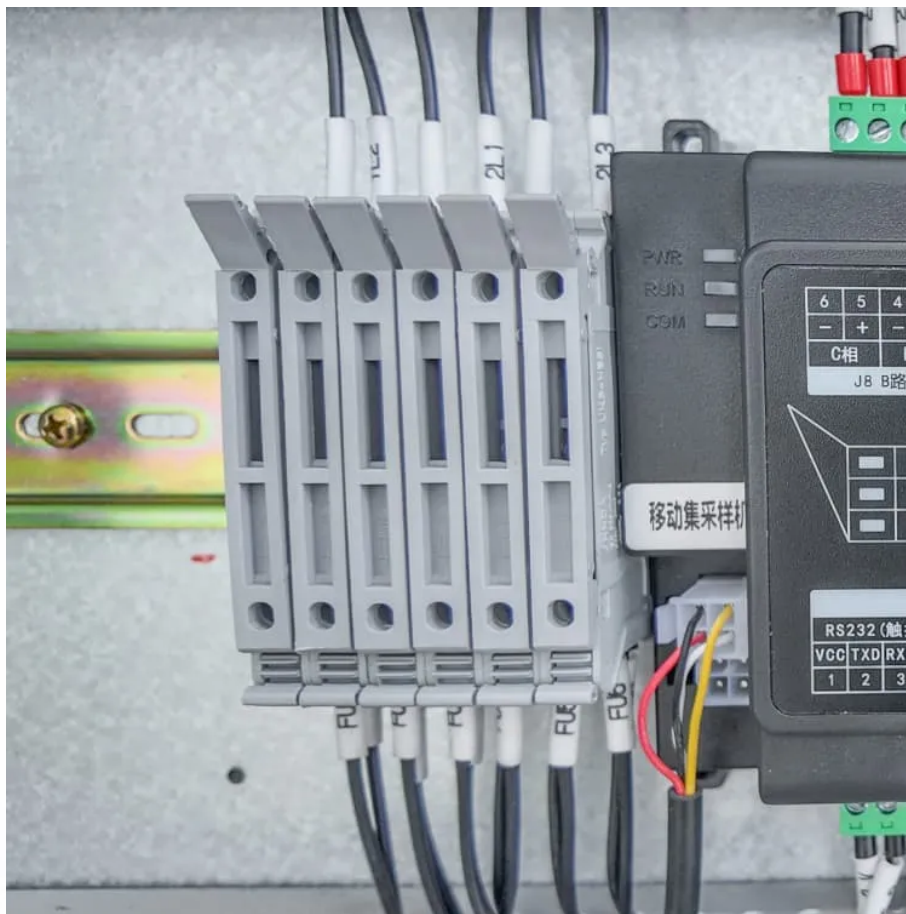


# Price of solar thin film modules





## Overview

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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.

How much does a thin-film solar cell cost?

The rated efficiency for GaAs thin-film solar cells is recorded at 29.1%. The cost for these III-V thin-film solar cells rounds going from \$70/W to \$170/W, but NREL states that the price can be reduced to \$0.50/W in the future.

How efficient are thin film solar panels?

However, the materials and thickness differ drastically. The average efficiency of thin film panels ranges between 7–13%, depending on the type and quality of material used. This is lower than monocrystalline panels, which reach up to 24%, but that doesn't tell the full story. Here's where thin solar panels shine:.

When did thin-film solar panels come out?

In 1980, researchers finally achieved a 10% efficiency, and by 1986 ARCO Solar released the G-4000, the first commercial thin-film solar panel. Thin-film solar panels require less semiconductor material in the manufacturing process than regular crystalline silicon modules, however, they operate fairly similar under the photovoltaic effect.



## Price of solar thin film modules

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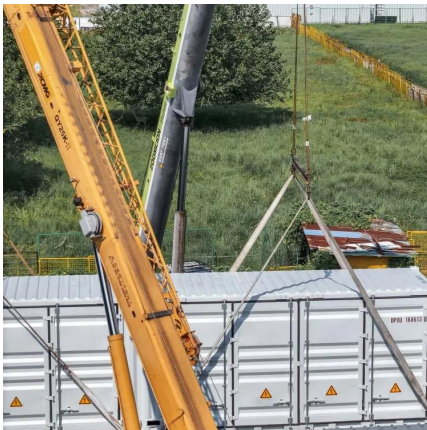
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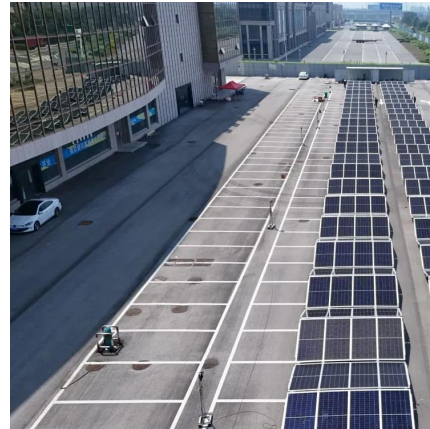
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