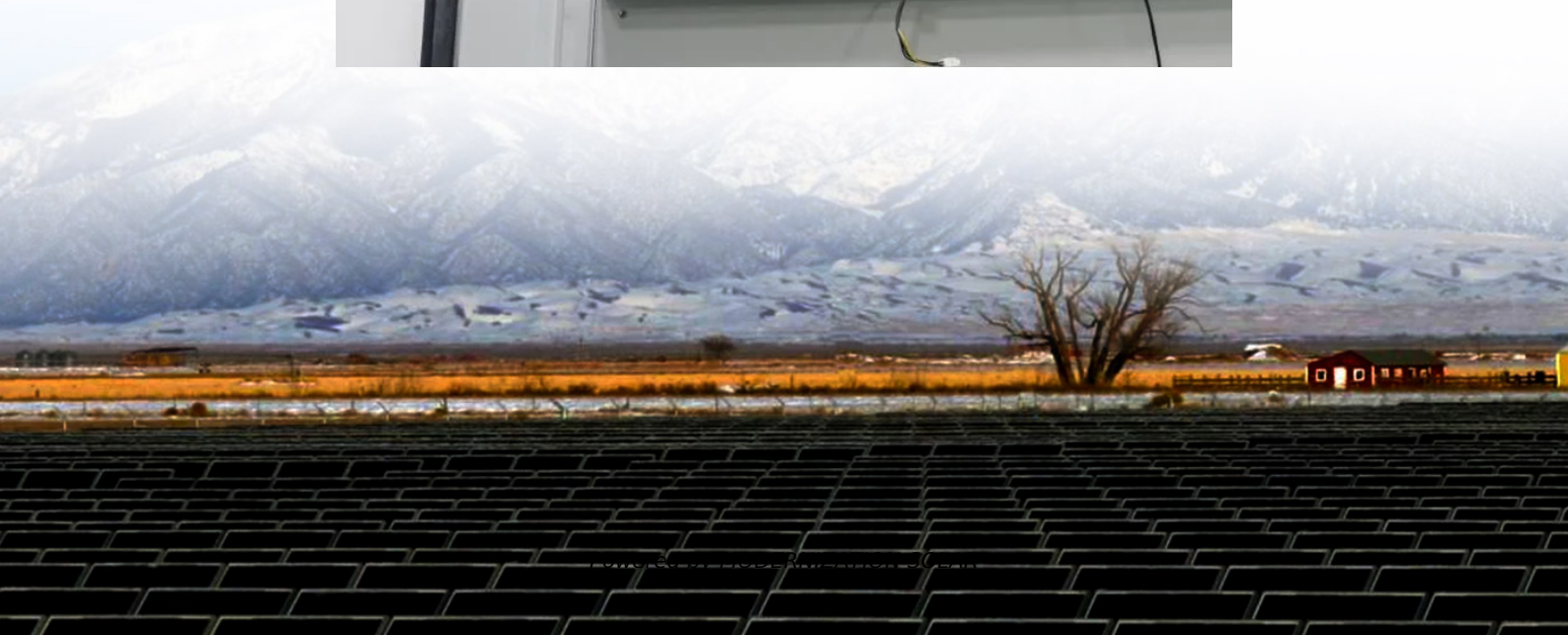


Common dimensions of solar thin-film modules





Overview

What are the different types of thin-film solar panels?

Before comparing the different types of thin-film solar panels against crystalline silicon solar panels (c-Si), it is important to remark that there are two main types, monocrystalline silicon (mono c-Si) and polycrystalline silicon (poly c-Si) solar panels.

What materials are used for thin-film solar panels?

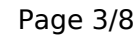
There are four different types of materials used for thin-film solar panels: Cadmium telluride is the most commonly used substrate in manufacturing thin-film panels. In fact, it holds 50% of market share. These panels have an efficiency range between 9% and 11%, but some have seen up to 18.7% efficiency ratings.

How much do thin-film solar panels cost?

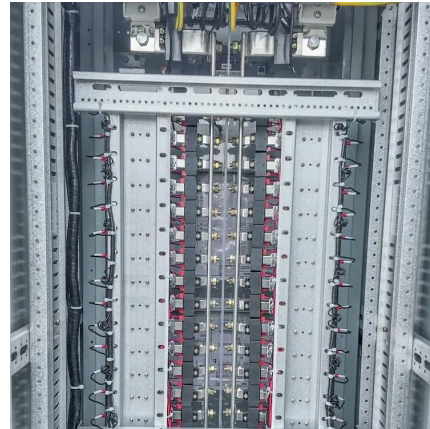
Thin-film solar panels cost an average of \$0.50 to \$1 per watt for the materials. For example, an average thin-film system would consist of ten panels. The total cost of these panels including materials and installation averages between \$2,000 and \$8,800, depending on the thin-film technology you use and how many you install.

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.

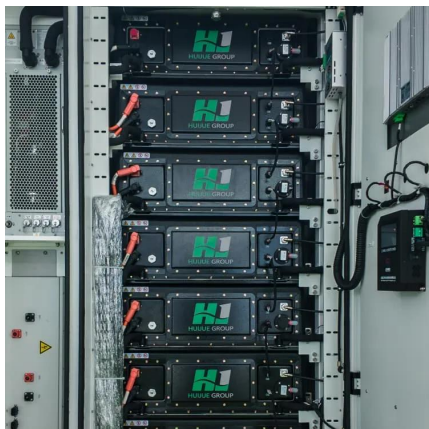


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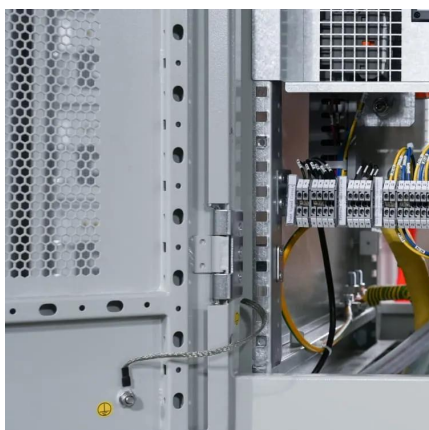
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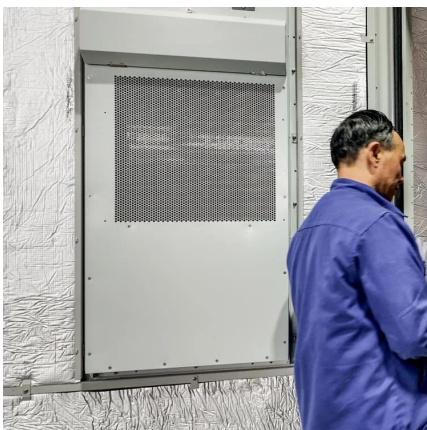
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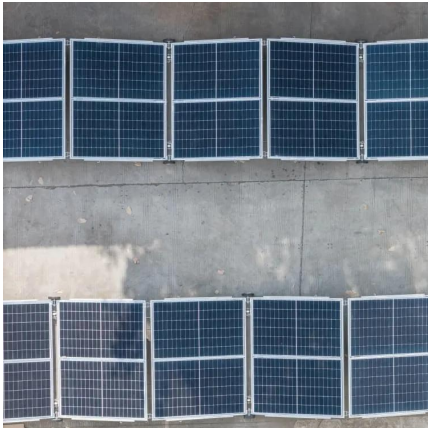
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