

Installation of thin-film solar modules on plateau





Overview

Can thin film solar modules be customized?

Up to now the serial interconnection using laser scribes after single deposition steps remains the standard for thin film solar modules. A panel-on-demand procedure for refinement of semi-fabricates to customized modules was proposed to allow for flexible design of building integrated thin-film photovoltaics.

Are amorphous silicon thin-film PV modules efficient?

Three amorphous silicon thin-film PV modules installed in ground-mount PV (GMPV), floating PV (FPV), and submerged PV (SPV) methods are considered for experimentation to understand the exergy performance. The experimental results show that the exergy efficiency is varied for each installation method.

How are thin-film solar modules made?

In the first step, thin-film solar modules (e.g., CIGS) are produced as semi-finished products or semi-fabricates in large quantities on large glass plates. These are then shipped to refinement centres positioned in the consumer markets.

How are thin film modules made?

When fully realized in the industry, standard semi-finished thin film modules would be mass produced in a first step and then shipped to local refinement centres. There an architect could order modules of arbitrary shape and colour.



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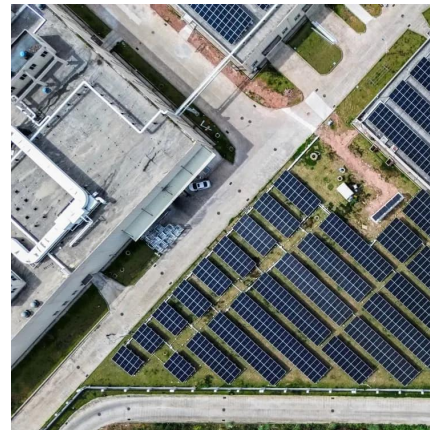


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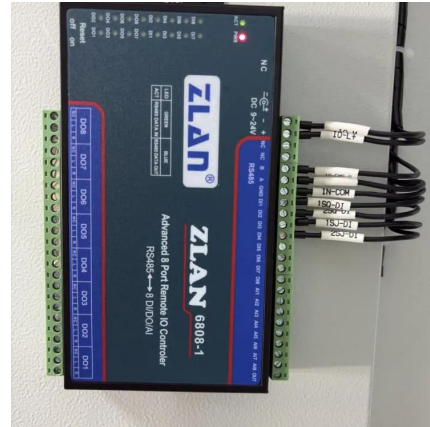


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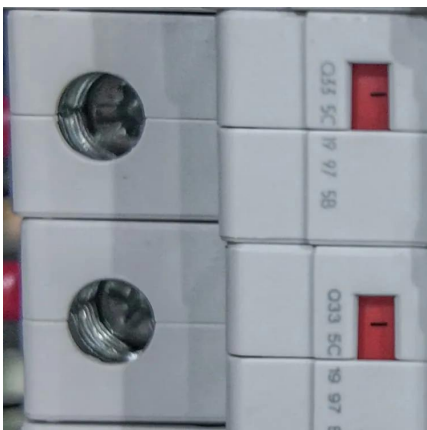
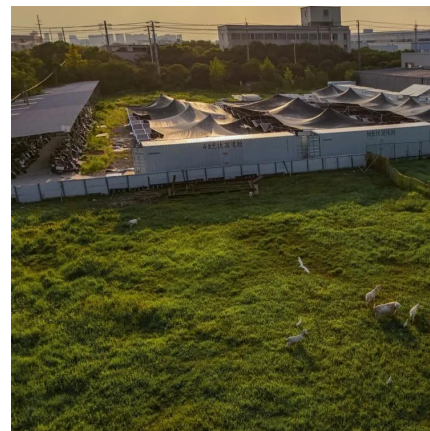


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