

SolarTech Power Solutions

Solar power generation system pvt box



Overview

PVT collectors combine the generation of solar electricity and heat in a single component, and thus achieve a higher overall efficiency and better utilization of the solar spectrum than conventional PV modules. Photovoltaic cells typically reach an electrical efficiency between 15% and 20%, while the largest share of the solar spectrum (65% - 70%) is converted into heat, increasing the temperature. Photovoltaic thermal collectors, typically abbreviated as PVT collectors and also known as hybrid solar collectors, photovoltaic thermal solar collectors, PV/T collectors or solar systems, are power generators.

PVT collectors generate electricity basically free of direct and are therefore regarded as a promising technology to supply buildings and industry.

The range of applications of PVT collectors, and in general, can be divided according to their temperature levels:

- low temperature applications up to 50 °C
- medium temperature.

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