

Direction of current on the surface of photovoltaic panels

Overview Working explanation Photogeneration of charge carriers The p-n junction Charge carrier separation Connection to an external load Equivalent circuit of a solar cell See also The theory of solar cells explains the process by which light energy in photons is converted into electric current when the photons strike a suitable semiconductor device. The theoretical studies are of practical use because they predict the fundamental limits of a solar cell, and give guidance on the phenomena that contribute to losses and solar cell efficiency.

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