

Title (en)

METHOD FOR MANAGING A PHOTOVOLTAIC SOLAR MODULE AND A PHOTOVOLTAIC SOLAR MODULE

Title (de)

VERWALTUNGSVERFAHREN FÜR PHOTOVOLTAISCHES SOLARMODUL UND PHOTOVOLTAISCHES SOLARMODUL

Title (fr)

PROCEDE DE GESTION D'UN MODULE SOLAIRE PHOTOVOLTAIQUE ET MODULE SOLAIRE PHOTOVOLTAIQUE

Publication

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Application

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Priority

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Abstract (en)

[origin: DE10107600C1] The invention relates to a solar module (1) comprising numerous individual solar cells (2) which are electrically interconnected in series, having at least one solar cell (5, 6) that is exposed to the same conditions but which is not connected to the other solar cells and which acts as a sensor for the instantaneous incident light on the solar module. Said module is also provided with a switching device (8) that can be controlled at least indirectly by the sensor in order to act on the electrical power leaving the solar module. According to the invention, at least two solar cells (5, 6), which are disposed at a great distance from one another, are provided as sensors, the output voltages or currents of which are directed to an evaluation circuit (7) where they are compared to one another by the latter. Said evaluation circuit (7) connects, by means of the switching device (8), a bypass which shunts the series circuit of solar cells (2) in the solar module (1) when the difference between the output from both sensors exceeds a threshold value.

IPC 1-7

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IPC 8 full level

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