

Title (en)
SENSOR MODULE AND METHOD FOR SENSING EXTERNAL INFLUENCING PARAMETERS, PARTICULAR IN THE MONITORING OF PHOTOVOLTAIC SYSTEMS

Title (de)
SENSORMODUL UND VERFAHREN ZUR ERFASSUNG EXTERNER EINFLUSSPARAMETER, INSBESONDERE BEIM MONITORING VON PHOTOVOLTAIK-ANLAGEN

Title (fr)
MODULE DE CAPTEURS ET PROCÉDÉ DE DÉTECTION DE PARAMÈTRES D'INFLUENCES EXTERNES, EN PARTICULIER LORS DE LA SURVEILLANCE D'INSTALLATIONS PHOTOVOLTAÏQUES

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Abstract (en)
[origin: WO2019179692A1] The invention relates to a sensor module for sensing external influencing parameters, in particular in the monitoring of photovoltaic systems, comprising at least one first solar cell (1) used for measurement, which is oriented toward a front side of the solar module, and at least one second solar cell (2) used for measurement, which is oriented toward a rear side of the solar module. The sensor module is constructed of largely degradation-free components in the region of the first and second solar cells (1, 2) and has a layered structure that approximates the layered structure of the photovoltaic modules of a photovoltaic system. By means of the proposed sensor module, reference data for external influencing parameters can be captured in the monitoring of photovoltaic systems, which reference data can be used to differentiate between operating states, general performance degradation, optical degradation and soiling in the monitoring of the PV system.

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Citation (search report)
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