

Xingcai Photovoltaic Panel



Overview

Due to the instability and unsatisfactory prediction of the generating capacity, the photovoltaic power is hard to directly connect to the electric grid. Dust deposition is one of the key impact factors for the photovoltaic.

Xingcai Photovoltaic Panel



Effectively predict the solar radiation transmittance of dusty

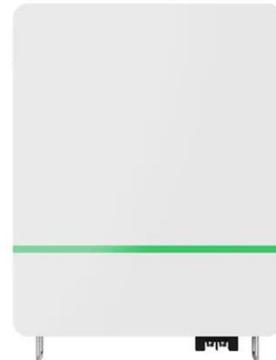
Please cite this article as: Li Xingcai, Niu Kun, Effectively predict the solar radiation transmittance of dusty photovoltaic panels through Lambert-Beer law, Renewable Energy (2018), doi: 10.1016/j. ...

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Effectively predict the solar radiation transmittance of dusty

This paper proposed a comprehensive physical model to predict the impact of the deposition on the light transmittance of solar panel. This model involves some physical parameters of the deposition, which ...

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Xingcai LI , Doctor of Engineering , Ningxia University , Department of

The particles deposited on the solar panels can scatter and absorb the solar radiation, and then present some negative impact on the output performance of photovoltaic cells.

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Experimental Research on the Convective Heat Transfer ...

In addition, the average heat transfer coefficient 18 of dusty PV module is slightly higher than that of clean PV panels by 4.13%, which can be revealed 19 by the thermal diffusivity.



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Effectively predict the solar radiation transmittance of dusty

The Mie theory is most appropriate solution to get the radiation characteristics of isotropic spherical particles, not approximate solution, which has been demonstrated in many studies (Xingcai and Kun, ...

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Company Overview

Shenzhen Xingcai photoelectricity CO., Ltd. Is a research and development,

production and sales of LED display and engineering services in one of the high-tech enterprises.

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Effectively predict the solar radiation transmittance of dusty

Xingcai and Kun [3] developed a predictive model using the Lambert-Beer law to assess the impact of dust deposition on the transmittance of solar cells.

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Experimental research on the convective heat transfer coefficient of

This paper established a new model of convective heat transfer coefficient with and without dust deposition. Results show that the convective heat transfer coefficient of PV panel is not ...

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