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Transmittance of single crystal double glass modules

Overview

Optical properties of glazing units play an important role in the quantificational analysis of solar ray and thermal transfer process in single and double glazing units. In the present work, a spectroscopic metho.

Can transmittance spectrograms be used to determine optical properties of single glazing units?

In this work, transmittance spectrograms of single glazing units at normal incidence were only measured, and a novel spectroscopic method was developed to determine the optical properties of single and double glazing units based on the transmittance spectra modeling.

What is a double glass module?

Double glass module contains two sheets of glass, whereby the back sheet is made of heat strengthened (semi-tempered) glass to substitute the traditional polymer backsheet. With * Corresponding author. Tel.: +86 13776101913; fax: +86 51268961413.

What is double glass photovoltaic module?

Preface To further extend the s rvice life of photovoltaic modules, double glass photovoltaic module has cently been develop d and st died in the PV community. Double lass module contains two sheets of glass, whereby the back sheet is made of heat strengthened (semi-tempered) glass to substitute the traditional polymer backsheet.

Are double glazing units homogenous and non scattering?

Assumptions for the mathematical model have been listed as follows: (1) The single glazing unit are homogenous and non scattering. (2) As the absorptance of air in the double glazing unit is very weak, the intervention of the air on the radiative interactions with glazing unit is neglected.

What is the encapsulation reliability risk of double glass module?

The double glass module is superior to the conventional single glass module,

which indicates that the encapsulation reliability risk of double glass module is good without delaminating risk. 90 Jing Tang et al. / Energy Procedia 130 (2017) 87â€“93 4 J. Tang et al./ Energy Procedia 00 (2017) 000â€“000 Fig. 3.

What is the maximum deformation of a double glass module?

The maximum deformation of long side is tested according to the mechancial load of +5400 Pa for DH1000h, and -5400 Pa for DH2000h. Test result is that double glass module has no problems such as bubbles and delamination after tested under the condition of distortion +DH2000h, and the power loss is 2%.

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