

SolarTech Power Solutions

Double-glass module power generation hours



Overview

What is double glass PV module?

Double glass PV module is known as the ultimate solution for the module encapsulation technique. Although double glass modules have many advantages, they are not yet widely used in photovoltaic power plants, for which one important reason is the large power loss due to the transmission of light in the cell gap region.

Does double glass module lose power after aging?

The test result (Fig. 4) shows the power loss of double glass module is small after aging, less than 5% and there is no abnormality in appearance and insulation performance. Fig. 4. Power attenuation after dynamic load + shear sequence test.

How reliable is Canadian Solar's Dymond double glass module?

Canadian Solar's Dymond double glass module passed 3 times IEC standard test and IEC 61730-2:2016 multiple combination of limit test and obtained VDE report, which fully indicate high lifetime and high reliability of this double glass module. This paper presents a detailed reliability study of Canadian Solar's Dymond double glass module.

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 backsheets. With * Corresponding author. Tel.: +86 13776101913; fax: +86 51268961413.

Why is double-glass module a good choice for power plants?

The scale of installed capacity gets larger and larger. The power plants have also been built in more diverse environments, such as on fish farms, tidal flats, in deserts, etc. Double-glass module is not subject to potential induced

degradation (PID) and boasts excellent durability, low permeability, long life cycle and other superior qualities.

What is the maximum deformation of a double glass module?

The maximum deformation of long side is tested according to the mechanical 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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