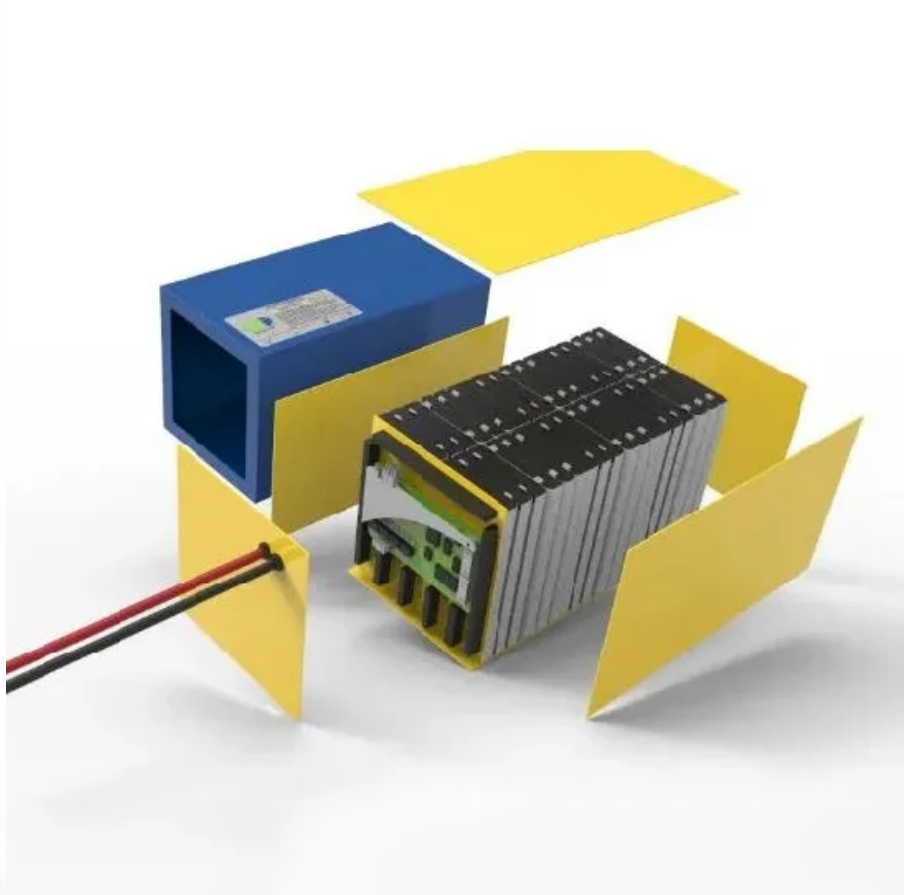


SolarInnovate Energy Solutions

Power of double-glass modules of the same size



Overview

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.

Why is white double glass PV module more powerful than transparent?

Due to the high reflectance of white EVA, the power of white double glass module is higher than that of transparent double glass module by 2-4%. Double glass PV modules is an area of significant investigation by many companies and institutes in recent years, for example Dupont, Trina, Apollon, SERIS, MIT, Meyer Burger and Talesun.

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.

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 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.

Are double glass PV modules safe?

Double glass PV modules is an area of significant investigation by many companies and institutes in recent years, for example Dupont, Trina, Apollon, SERIS, MIT, Meyer Burger and Talesun. According to the literature, double glass also has some potential risks besides the abovementioned advantages.

Power of double-glass modules of the same size

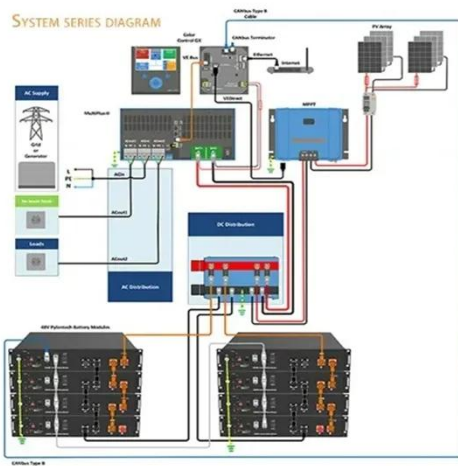


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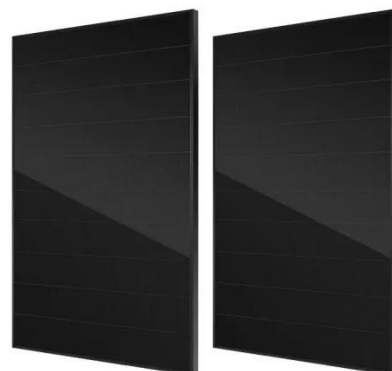


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A Quantitative Comparison

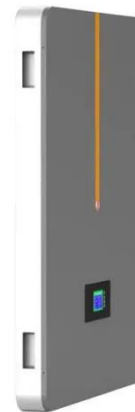
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