

SolarTech Power Solutions

Double-sided double-glass degraded components

LiFePO₄

Wide temp: -20°C to 55°C

Easy to expand

Floor mount&wall mount

Intelligent BMS

Cycle Life:≥6000

Warranty :10 years



Overview

Are newer glass modules more prone to glass breakage?

Some recent studies suggested that glass defects were more prominent in newer modules (less than 4 years of age) as compared to 20 year old modules, which may be attributed to the adoption of thinner glass sheets that are more susceptible to glass breakage . Figure 6.

What is a double glass module?

The double glass module design offers not only much higher reliability and longer durability but also significant Balance of System cost savings by eliminating the aluminum frame of conventional modules and frame-grounding requirements. The application of double-glass modules covers multiple markets including utility, residential and commercial.

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) 87–93 4 J. Tang et al./ Energy Procedia 00 (2017) 000–000 Fig. 3.

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%.

What causes glass breakage?

Glass breakage likely developed at scratches or chips on glass surfaces and edges. Some recent studies suggested that glass defects were more prominent in newer modules (less than 4 years of age) as compared to 20 year old modules, which may be attributed to the adoption of thinner glass

sheets that are more susceptible to glass breakage .

Does double glass module have bubbles and delamination?

The test result (Fig. 5) shows that the double glass module has no obvious appearance abnormalities such as bubbles and delamination after this sequence test, and the power loss of the module is smaller than 5%. Jing Tang et al. / Energy Procedia 130 (2017) 87â€“93 91 J. Tang et al./ Energy Procedia 130 (2017) 87â€“93 91 Fig. 5.

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