

ContainerPower Energy Solutions

Kiribati double glass modules



Back



Side



Front



Top



Bottom



Overview

What is the bifaciality of a double glass module?

Bifaciality: The bifaciality of double glass modules produces a gain of around 10-11% compared to the power measured on the front panel alone, for TOPCon type modules under so-called BNPI (bifacial nameplate irradiance) test conditions.

What is a dual-glass module?

Dual-glass type modules (also called double glass or glass-glass) are made up of two glass surfaces, on the front and on the rear with a thickness of 2.0 mm each. Some manufacturers, in order to reduce the weight of the modules, have opted for a thickness of 1.6 mm. Dualsun has chosen to stay with a thickness of 2.0 mm for reasons explained below.

What is a glass-glass module?

Glass-Glass module designs are an old technology that utilises a glass layer on the back of modules in place of traditional polymer backsheets. They were heavy and expensive allowing for the lighter polymer backsheets to gain the majority of the market share at the time.

Why are double glass modules symmetrical?

Mechanical constraints on cells: the fact that the structure of the double glass modules is symmetrical implies that the cells are located on a so-called neutral line, the upper part of the module being in compression during a downward mechanical load and the lower glass surface being in tension.

What changes are incorporated in glass-glass modules?

Another major change that is also incorporated for glass-glass modules is swapping EVA for polyolefins as an encapsulant. This is due to the free radicals produced during the cross-linking lamination process of EVA. While traditional backsheets are somewhat permeable to the free radicals, the

double-glass module is not.

Are double glass modules a risk factor for PID?

Double glass modules, due to the hermeticity of their structure, present less risk of PID. This phenomenon can be avoided by the use of an appropriate encapsulation material and by quality control reinforced by tests in climatic chambers.

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