



GermanSolarZA

P-type PERC bifacial modules





Overview

What is PERC bifacial technology?

PERC bifacial technology is a new way to achieve high-power and low- cost module. NSP BiFi double-glass module has high power output and better reliability. Champion module power 298W with 60 cells and equivalent power 337W. NSP BiFi module enables higher system IRR than conventional mono- facial multi c-Si, mono c-Si, and PERC modules.

What is bifacial PV & PERC?

BiFi module has various applications in solar farm, agriculture, flat rooftop, BIPV, carport, landmark, snow region, and desert region. Cost reduction is the key to expand bifacial PV market. PERC bifacial technology is a new way to achieve high-power and low-.

What does '0.1' mean on a PERC+ bifacial module?

The factor '0.1' describes the additional stray light intensity irradiating the rear of the PERC+ cells relative to the AM1.5g front-side illumination. In practice, this factor can vary between 0 and 0.25 depending on, for example, the albedo of the ground and the detailed mounting geometries of the bifacial modules .

Can bifacial PERC modules be tested for PID?

Flash testing results under standard test condition (STC) of the front side of bifacial PERC modules for screening test of PID based on IEC 62804-1 (foil method). Only results on module faces that were stressed exhibiting degradation are shown.



P-type PERC bifacial modules



[Elan Series_12BB PERT & PERC Halfcut Bifacial PV ...](#)

Monofacial PV Modules MBB P-Type PERC Half-cut Highlights MBB cell technology - excellent anti-microcracking performance with more balanced interior stress; grid ...

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[Bifacial solar products light new pathway to future PV](#)

In addition, as our bifacial modules utilizing JinkoSolar's Eagle Dual PERC production infrastructure, JinkoSolar's p-type bifacial products solutions greatly improve the ...

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Characterization of rear-side potential-induced degradation in bifacial

The proposed mechanism indicates that the degradation in bifacial p-PERC solar modules is caused by the field-effect deterioration of the Al₂O₃ layer caused by alkali ions ...

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[Improved Bifacial Properties of p-type PERC ...](#)

The p-type passivated emitter and rear cell (PERC) has achieved great success and the bifacial PERC product is predicted as the mainstream of photovoltaic market.

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Field Performance Comparison Test of N-type TOPCon and P-type PERC Bifacial Modules in Haikou by CGC Summary Highlights: The power generation performance of N-type ...

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PERC Bifacial PV BiFi cell, module, and system

Summary Cost reduction is the key to expand bifacial PV market. PERC bifacial technology is a new way to achieve high-power and low- cost module. NSP BiFi double-glass ...

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Polarization-type potential-induced degradation in bifacial PERC

While there are several studies showing PID-p occurring on both front and back faces of bifacial PERC in accelerated tests, we address the yet unclarified behavior in fielded ...

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Bifacial PV System Performance

o Bifacial PV is becoming mainstream with GW's of installed projects o Energy gain depends on the site configuration and surface albedo. Models like SAM, PVsyst and ...

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Industrial implementation of bifacial PERC+ solar cells ...

The rapid industrial implementation of bifacial PERC+ cells is facilitated by the very similar process technology to that of mainstream monofacial PERC cells.

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Commercial bifacial silicon solar cells

Abstract This review article examines the development of bifacial solar cells and their present commercial architectures. This involves analyzing the historical development and ...

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