EIEI POWER

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-.

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.

What is the PID mechanism in bifacial P-PERC solar cells?

The PID mechanism in bifacial p-PERC solar cells affects both the front and back of the modules. On the front side, PID manifests as a shunting-type degradation known as PID-s. This degradation is closely related to the sodium (Na) content in the soda-lime glass used for the cover .

P-type PERC bifacial modules

[P-type PERC PV Modules]

Sunrise P-type M10 module - Aquaman series, using 182mm monocrystalline cells, module output power 400-565w, with two versions of 54/72. The product power exceeds with excellent ...

[Bifacial solar products light new pathway to future PV]

May 21, 2024 · In addition, as our bifacial modules utilizing JinkoSolar's Eagle Dual PERC production infrastructure, JinkoSolar's p-type bifacial products solutions greatly improve the ...

[Improved Bifacial Properties of p-type PERC ...]

Apr 1, 2021 · The p-type passivated emitter and rear cell (PERC) has achieved great success and the bifacial PERC product is predicted as the ...

[Elan Series_12BB PERT & PERC Halfcut Bifacial PV ...]

Jul 23, 2021 · 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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Jan 8, 2025 · 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 ...

Characterization of Bifacial Passivated Emitter and Rear ...

Dec 3, 2023 · Characterization of bifacial p-type PERC solar cell with various proportions of size and width are presented in this paper. Back Silicon Nitrate layer with various thick-ness are ...

[PERC Bifacial PV BiFi cell, module, and system]

Oct 8, 2016 · 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 ...

A simulation study to evaluate and compare monofacial Vs bifacial PERC

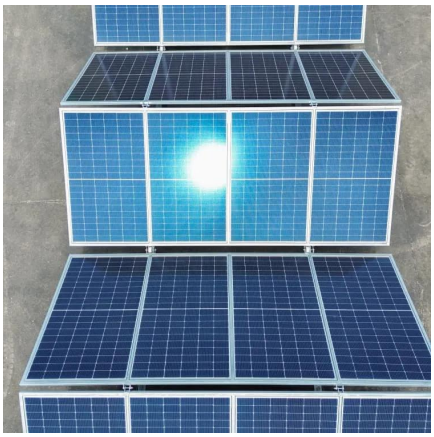
Jan 1, 2021 · Fig. 1 presents the cross section of a common bifacial cell with crystalline silicon substrate. Both p-type cells and n-type bifacial cells consist of a metallization grid, which is ...

[P-type PERC PV Modules]

Sunrise P-type M10 module - Aquaman series, using 182mm monocrystalline cells, module output power 400-565w, with two versions of 54/72. The ...

[Improved Bifacial Properties of p-type PERC Solar Cells ...]

Apr 1, 2021 · 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.



Characterization of rear-side potential-induced degradation in bifacial

Dec 1, 2024 · 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 ...

Polarization-type potential-induced degradation in bifacial PERC

Feb 24, 2025 · 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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