

SolarInnovate Energy Solutions

Component class double-sided perc



Overview

What are the advantages of double-sided PERC solar cell technology?

The double-sided PERC solar cell realizes double-sided power generation with almost no increase in cost, and achieves 10%-25% power generation gain on the system side, which greatly enhances the competitiveness and future development potential of PERC technology. 1. Comparison of PERC solar cell technology and conventional solar cell efficiency.

What is PERC technology?

PERC technology increases conversion efficiency by adding a dielectric passivation layer on the back side of the cell. A better level of efficiency in standard cell structures is limited by the tendency of photogenerated electrons to recombine.

What is the performance of PERC technology on polycrystalline and monocrystalline solar cells?

At present, PERC technology has become the main method for increasing the efficiency of P-type solar cells, but the performance of PERC technology on polycrystalline and monocrystalline cells is different.

What are the advantages of PERC solar cell?

(2) High-quality back passivation, which makes the open circuit voltage (Voc) and short-circuit current (Isc) of the PERC solar cell significantly higher than that of the conventional solar cell, so that the solar cell conversion efficiency is higher.

What is a PERC solar cell (or photovoltaic cell)?

PERC (PPassivated Emitter and Rear Cell), the passivated emitter and back cell technology, was first proposed by Australian scientist Martin Green in 1983 and is now becoming a new generation of conventional technology for solar cells.

What is the PERC solar cell efficiency record?

PERC solar cells are the main technical contributors to the solar cell efficiency record that has been broken again and again. In the first half of 2018, the PERC solar cell efficiency was recorded at 23.95%, which was created by Jinko on May 9, 2018.

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a-Class 640W 665W Monocrystalline Silicon Double-Sided Double ...

Jul 30, 2025 · a-Class 640W 665W
Monocrystalline Silicon Double-Sided
Double Glass Perc Solar Panel, Find
Details and Price about Solar Panel
Module Half Cell Monocrystalline Panel ...

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