

SolarInnovate Energy Solutions

295w high efficiency perc bifacial module



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 is NSP BiFi 295W module?

NSP BiFi 295W module enables higher system IRR than conventional mono-facial 265W multi c-Si, 280W mono c-Si, and 295W PERC modules. Higher albedo enables higher IRR in BiFi system. BiFi module has various applications in solar farm, agriculture, flat rooftop, BIPV, carport, landmark, snow region, and desert region.

What is a bifacial solar module?

LONGi launched its mono-PERC modules in 2016, featuring integrated PERC technology on monocrystalline silicon and low light degradation, and its cell efficiency has increased from 21% to 24.06%. Bifacial modules collect solar energy from both the front and back side of the module, increasing the total power output per module.

How bifacial PV is expanding market share?

High cost is main issue for expanding market share of bifacial PV.
nPERT/nPERL/SHJ are using high-cost n-wafers and double-sided Ag paste.

PERC BiFi. PERC bifacial is using existing process tools and same materials as pPERC, enabling cost reduction for bifacial PV. PERC market share is forecasted to be 25% in 2020.

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PERC solar cell technology guide: Benefits and drawbacks

Jun 2, 2025 · Top PERC solar cell manufacturers like LONGi, JA Solar, and JinkoSolar offer high-efficiency PV modules for residential and utility applications. Manufacturers use a combination ...

295W Bi-Facial Solar Energy System Mono Crystalline Module ...

Feb 4, 2024 · In 2020, SpolarPV expects to expand production capacity to 1GW for modules and 500MW for cells. SpolarPV is committed to improving the efficiency of its production process ...



PV EXPO 2018 Reveals Widespread Deployment of Half-Cut Cells in Modules

Mar 15, 2018 · Currently, manufacturers are promoting bifacial modules with deals such as making the generation capability of the backside free. At PV EXPO 2018, most bifacial ...

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