

PDEOZE PowerContainer

Perc battery module model specifications



Overview

What are the advantages of half-Cell PERC modules?

Assembled with high-efficiency PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well enhanced tolerance for mechanical loading.

How PERC solar cells improve cell efficiency?

PERC solar cells improve cell efficiency by depositing additional passive coating and laser grooves on traditional cells. 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%.

What are the benefits of PERC technology?

Higher module conversion efficiency (up to 20.17%) benefit from Passivated Emmitter Rear Contact (PERC) technology. Excellent Anti-PID performance guarantee limited power degradation for mass production. Advanced glass and surface texturing allow for excellent performance in low-light environment.

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Jan 9, 2025 · High Efficiency Higher module conversion efficiency (up to 20.17%) benefit from Passivated Emmitter Rear Contact (PERC) technology.

Jan 22, 2025 · PERC modules must meet these benchmarks to gain access to global markets, with manufacturers like JinkoSolar and Longi frequently highlighting IEC compliance in ...

Jun 17, 2025 · Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 ° C Nominal operating battery ...

Jan 9, 2025 · 425-445 Watt MONO PERC HALF CELL MODULE Positive power tolerance of

0~+3% Half Cell Mono PERC 78 Cell

3 days ago · LONGi High-efficiency solar Module, widely adopting PERC solar cells technology, Half-cut Module Technology and Bifacial PV technology, Mono Silicon Crystalline Technology ...

May 19, 2025 · Besides these new cell configurations, Vmp and Voc voltages of PERC modules are ~5-15% higher than that of traditional modules. Table 1 below shows a comparison of ...

Jan 27, 2024 · 144 HALF-CELL MONO PERC MODULE Trust Anchor to Deliver Reliable Performance Over Time World-class manufacturer of crystalline silicon photovoltaic modules ...

Dec 16, 2024 · Advanced technologies Multi-bus bar / PERC / Ga Doped / Half cut/ M10 cell / smart soldering.

The new technology of PERC passivation film effectively reduces the back surface load, increases the open circuit voltage, increases the back surface reflection, and improves the short circuit ...

May 29, 2019 · Introduction Assembled with high-efficiency PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent ...

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