



# Longi solar cell power generation efficiency

How efficient are LONGi Solar cells?

LONGi announced today that it has set a new world record of 27.09% for the efficiency of crystalline silicon heterojunction back-contact (HBC) solar cells. LONGi announced today that it has set a new world record of 33.9% for the efficiency of crystalline silicon-perovskite tandem solar cells.

How efficient is Longi?

While in June 2024, the company broke its own record with 34.6% conversion efficiency. Now, within a year, LONGi has achieved a new world record of 34.85% efficiency. In September, Longi's research team explained that the cell was based on a bilayer interface passivation strategy that reportedly maximizes both electron transport and hole blocking.

How efficient is Longi's crystalline silicon-perovskite tandem solar cell at SNEC 2025?

At SNEC 2025, LONGi's crystalline silicon-perovskite tandem solar cell achieved groundbreaking 33 percent efficiency on an ultra-large area of 260.9 cm<sup>2</sup>; through material innovation and structural optimization.

Is Longi a crystalline silicon-perovskite tandem solar cell?

With the recent breakthrough, LONGi has refreshed its own world records in both single-junction crystalline silicon solar cells and crystalline silicon-perovskite tandem solar cells.

A two-terminal crystalline silicon-perovskite tandem solar cell, developed by Longi, achieved a conversion efficiency of 34.85%.

LONGi Announces Two New Global Solar Cell Efficiency Records  
===== On June 12, 2025, ...

On June 12, 2025, at the highly anticipated SNEC 18th (2025) International Photovoltaic Power Generation and Smart Energy Conference & Exhibition, LONGi announced two groundbreaking ...

The theoretical limit efficiency of monocrystalline silicon-perovskite tandem solar cells is up to 43 percent, making them the next generation of ultra-high efficiency solar cells after ...

Certified by the authoritative US National Renewable Energy Laboratory (NREL), LONGi self-developed large-area (260.9 cm<sup>2</sup>;) crystalline silicon-perovskite two-terminal tandem solar cell ...

October 23rd, 2024 - LONGi Green Energy Technology (Hereinafter referred to as LONGi) officially announced a new world record for crystalline silicon module efficiency. According to ...

Chinese solar technology giant Longi Green Energy Technology Co Ltd announced two new world records for solar cell efficiency recently, further cementing China's leading position in the ...



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The breakthroughs include a 33 percent conversion efficiency for a commercial-size silicon-perovskite tandem solar cell and 26 percent efficiency for a crystalline silicon module.

LONGi has announced two technological milestones, as part of the recent SNEC 2025 event. Certified by the US National Renewable Energy Laboratory (NREL), LONGi's large-area ...

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