

Jinko claims 24.79% efficiency for n-type monocrystalline cell

The Chinese manufacturer has claimed a world record for a large-size, contact-passivated solar cell. The result, certified by Germany's Institute for Solar Energy Research in Hamelin, better the company's previous record by almost 0.6%.

JULY 20, 2020 **EMILIANO BELLINI**

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Jinko has claimed another world record.

Image: JinkoSolar

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Chinese solar manufacturer [JinkoSolar](#) has achieved 24.79% conversion efficiency for an n-type, TOPCon, monocrystalline-silicon cell.

The company says the result, certified by Germany's Institute for Solar Energy Research in Hamelin, is a world record for a large-size, contact-passivated cell. [Jinko broke its own record in January](#), when it hit 24.2% efficiency.

In May 2018, Jinko's best device had a [reported efficiency of 23.95%](#), up from the 23.45% recorded in November 2017. Those landmarks were both certified by the Photovoltaic and Wind Power Systems Quality Test Center at the Chinese Academy of Sciences.

The latest Jinko cell features a 267.72cm² monocrystalline silicon substrate grown using the Czochralski method.

The manufacturer said it had applied several technologies to get the result, including passivating contacts, an advanced diffusion system, surface passivation and an advanced anti-reflection technique. Material upgrades were also integrated into the cell process, said Jinko. "The record-breaking monocrystalline silicon solar cell will be gradually applied to product production," said the company.

In January, Jinko said its cell was based on its HOT design and featured tunnel-oxide passivating contact (TOPCon) technology.

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