

## 183 75-N-Type16BB Mono TOPCon Bifacial Solar Cell Ronma Solar

How efficient are Topcon solar cells?

Due to the potential for high theoretical limit efficiency as high as 28.7% and low cost ,TOPCon solar cells have become one of the prospective technologies in the photovoltaic (PV) market . At present, the highest efficiency for n-TOPCon has achieved 26.4% on an area of 330.15 cm 2 at JinkoSolar .

Are Topcon solar cells the new standard in c-Si solar cell mass production?

TOPCon solar cells featuring a poly silicon-based passivating contact are about to become the new standard in c-Si solar cell mass production.

How efficient are N-Topcon solar cells?

Cells with J0,n+?5 fA/cm 2 (50 nm) and Jo,metal,n++?73.8 fA/cm 2 (110 nm) exhibited the efficiency gain of 0.12%. A pilot efficiency >25.4% of cells treated with optimized passivation process. Improving the conversion efficiency of n-TOPCon solar cell is still a hot topic.

How bifacial N-Topcon devices improve solar cell efficiency?

241.3 cm 2 -large bifacial n-TOPCon devices with 23.01% certified efficiency demonstrated. Using >= 150 nm of poly-Si and polished rear sideimproves the solar cell efficiency. 1-cell glass-glass laminates of the devices pass damp heat and thermal cycling tests. Roadmap to 25.5% efficiency presented.

How are N-Topcon Solar Cells fabricated?

1-cell laminates of the n-TOPCon solar cells with a tpoly of 150 nm and polished rear surface were fabricated in a glass-glass configuration, using SmartWire Connection Technology (SWCT) foils by Meyer Burger ,PO8110 encapsulant by 3 M, and glass without ARC.

How do Topcon solar cells work?

These TOPCon solar cells are usually fabricated on n-type wafers with a boron-diffused front side emitter and n-doped TOPCon layer at the rear surface, which acts as a passivating electron contact.

TOPcon Solar Cell. Significantly higher conversion efficiency of 25.5% at mass production scale, resulting in lower LCOE. No light-induced degradation due to no boron-oxygen bond in N-type silicon substrate. Bifaciality above 85% ensures ...

Company profile for solar panel and material manufacturer Zhejiang Ronma Solar Group Co,.Ltd. - showing the company's contact details and offerings. ... We can offer Mono/Poly-crystalline Silicon PERC and N-Type TOPCON Solar Cells ...



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