

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 cm² at JinkoSolar.

How efficient are Topcon bifacial cells?

After optimizing the passivation process, the industrial-grade TOPCon bifacial cells reached an efficiency (Eff), Voc, Jsc, and FF values as high as 25.4%, 721 mV, 42.2 mA/cm², and 83.5%, respectively.

How bifacial N-Topcon devices improve solar cell efficiency?

241.3 cm²-large bifacial n-TOPCon devices with 23.01% certified efficiency demonstrated. Using ≥ 150 nm of poly-Si and polished rear side improves 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.

What are N-Topcon solar cells?

The appeal of n-TOPCon solar cells is in the incorporation of rear passivating contacts consisting of n-type polycrystalline silicon (poly-Si) and interfacial SiO_x films, which provide low recombination current density (J₀) and contact resistivity (ρ_c) simultaneously.

What is the fill factor of N-Topcon solar cells?

a) Fill factor (FF) of the n-TOPCon solar cells with different τ_{poly} , together with the FF without the impact of the series resistance (FF_n), as well as the FF without the impact of both the series resistance and the non-unity ideality factor (FF₀).

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