AE 210M-18BB N TOPCon SE Bifacial AIDU ENERGY

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/cm 2,and 83.5%,respectively. 1. Introduction

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 .

How to improve conversion efficiency of N-Topcon solar cells?

Improving the conversion efficiency of n-TOPCon solar cell is still a hot topic. The selective poly-Si based passivating contacts(Poly-SEs) are ideal candidates for reducing the parasitic absorption and contact resistivity of n-type silicon solar cells and for providing better current collection.

What is the efficiency of N-Topcon?

At present,the highest efficiency for n-TOPCon has achieved 26.4%on an area of 330.15 cm 2 at JinkoSolar . The TOPCon structure consists of an ultrathin silicon oxide (SiOx) film and an n (+) doped polysilicon (poly-Si) layer,which uses the concept of tunnel selectivity engineering.

What is the Topcon structure?

The TOPCon structure consists of an ultrathin silicon oxide (SiOx) film and an n (+) doped polysilicon (poly-Si) layer,which uses the concept of tunnel selectivity engineering. By employing thin SiOx layer,it was possible to obtain the tunneling selectivity which allows electron transmission from Si to n+-poly-Si layer while holes are repelled.

How much fa/cm2 does tdep change with temperature?

For Tdep,J0 exhibits a small change of approximately 1 fA/cm 2with increasing Tdep from 770 to 810 °C (Fig. 8 b).

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