M10 182 mono PERC Bifacial 10BB Solar Cell Newsolar Energy

What is India's first bifacial mono PERC solar cell?

From pv magazine India Premier Energieshas developed India's first bifacial mono PERC solar cell based on an M10 wafer (182 mm). The cell has a conversion efficiency rating of up to 23.2%. It also has an open-circuit voltage of 0.68 V,a short-circuit current of 13 A,and a fill factor of 82%.

What is the difference between a mono PERC and a solar cell?

Compared with the full cell modules,the temperature of the mono perc cell module is 2-3 degrees lower,and the hot spot temperature is 10-20 degrees lower. Solar cell M10 module has a lower shadow shielding loss. Sunrise M10 cell is mainly used for Aquaman series solar modules.

What is the efficiency rating of M10 bifacial solar cell?

The cell has an efficiency rating of up to 23.2%. (L) Surender Pal Singh,chairman,Premier Energies,and (centre) Chiranjeev Saluja,managing director,Premier Energies,with (R) Bhagwant Khuba,minister of State for New and Renewable Energy,during the launch of their M10 bifacial solar cell at REI 2022.

What are the characteristics of 182mm solar cell?

1. Type : Monocrystalline Solar Cell (182mm X 182mm,Diameter 247mm) 2. Geometrical properties (1) Shape of Solar Cell : pseudo-square with rounded corners(2) Length of wafer edge : 182 ± 0.25mm (3) Length (corner to corner) : 247 ± 0.25mm 3. Power of 182mm solar cell

What are the advantages of M10 solar cell busbar p-type bifacial half-cut?

M10 solar cell,compared with the existing product span,equipment,process,auxiliary material maturity,production line upgrading difficulty,current product yield,and other factors,the M10 cell busbar P-type bifacial half-cut is the best size to achieve ultra-high power modules,more mature industrial ecology,fewer transportation problems.

Is 182 mm wafer size a viable option?

"The 182 mm wafer size is the most economically viable option,based on an in-depth analysis of various geographical conditions along the industrial value chain," said Premier Energies,which has an integrated solar manufacturing facility in Hyderabad. Premier Energies now has 2 GW of module capacity and 750 MW of cell (182 mm mono PERC) capacity.

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