

What is the difference between PERC and IBC solar cells?

Efficiency for IBC solar cells is higher in general, but the highest recorded efficiency for both technologies is similar. The highest efficiency for PERC solar cells was recorded at 25.0%, while IBC solar cells achieved a 25.4% conversion efficiency. The biggest downside for IBC technology is that it has a higher cost than PERC solar panels.

What is PERC solar cell technology?

The PERC solar cell technology includes dielectric surface passivation that reduces the electron surface recombination. At the same time, the PERC solar cell reduces the semiconductor-metal area of contact and increases the rear surface reflection by including a dielectrically displaced rear metal reflector.

How are PERC solar cells made?

Poly PERC solar cells are manufactured by blending or melting different silicon fragments together, while mono PERC solar cells are manufactured using a single silicon crystal, free from grain limits (2D defects).

What is the difference between PERC & poly C-Si solar panels?

Poly c-Si solar cells with 18.46% efficiency get an increased efficiency of 18.61% when manufactured with PERC technology, the difference is even more notorious with mono c-Si solar cells. A traditional mono c-Si panel has a 19.55% efficiency, but this efficiency increases by 0.86% to achieve 20.41% for mono PERC solar panels.

What is PERC technology?

Other advanced panel technologies PERC is only one of the available technologies to improve efficiency and applications for solar panels. There are other advanced technologies like Interdigitated Back Contact (IBC) and Bifacial Solar Cell (BSC) technology. Manufacturers can use either one or even combine PERC with IBC or BSC.

What are the pros and cons of PERC solar panels?

Passivated Emitter and Rear Contact (PERC) technology is an excellent improvement that allows solar cells to achieve higher efficiencies. While this technology presented several cons in the past like LID and PID, manufacturers found ways to solve this, resulting in high-efficiency PERC solar panels without the cons of the technology in the 80s.

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