A-Core Container

What is PERC

Overview

What does PERC stand for?

Literally, it stands for Passivated Emitter and Rear Cell. You also find the term Passivated Emitter and Rear Contact. 2. What is it?

 PERC cell technology defines a solar cell architecture that differs from the standard cell architecture that has been in use for three decades and that is usually featured in all photovoltaic manuals.

What is PERC technology?

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 PERC solar panels?

One option that outstands from the rest is the Passivated Emitter and Rear Contact (PERC) solar technology which allows for the creation of PERC solar panels. The PERC solar panel is a highly efficient and improved type of PV technology that uses Crystalline Silicon (c-Si) and fixes some inconveniences of this traditional technology.

What is a PERC solar cell (or photovoltaic cell)?

PERC (PPassivated Emitter and Rear Cell), the passivated emitter and back cell technology, was first proposed by Australian scientist Martin Green in 1983 and is now becoming a new generation of conventional technology for solar cells.

What is PERC & perf?

Under the acronym PERC, we actually also find the solar cells technologies named PERL, PERT, PERF. Even if initially not considered in the nomenclature

of PERC, they are now usually considered as being part of the same family 4. What's the interest of the technology?

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How does a PERC solar cell work?

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. This allows photons to be absorbed when going into the cell or out of it, and it also reduces heat absorption.

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