

MS-9BB166 Mono Perc Solar Cell half cut

Mario Solar

What is a PERC mono half-cut solar panel?

This means that a PERC mono half-cut solar panel can be manufactured, including reduction of electrical losses, a higher tolerance against partial shading, reduced heat absorption from the sun, improved efficiency due to reducing surface recombination, and an increased CTM power, all at the same time.

Do half-cut solar panels reduce power losses?

Half-cut solar cells include twice the substrings, meaning that shading a single area of a panel will cause reduced losses. Studies show that half-cut solar cell panels produce up to 50% fewer power losses in an array. Hot spots are a consequence of partial shading in solar panels.

Do half-cell solar cells cost more than whole-cell modules?

Studies show that half-cell modules cost 0.6-1.2% more than whole-cell modules, but thanks to the power increase, their cost per watt is reduced by 0.8-1%. Manufacturing half-cut solar cell modules means twice the soldered connections, which translates as twice the probability of bad contacts.

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