# Multi 3 Bus Bars

What is multi busbar technology?

Another aspect of multi busbar technology is the number of busbars in solar cells. The oldest types of solar cells have 2 busbars only. They were known as 2BB solar panels. With evolved technology and most solar cells were printed with 3 busbars and then 4 busbars.

What is the difference between a 3-busbar and a multi-busbar module?

The average fill factorof the 3-busbar modules is in the range of 76.7%,whereas the average fill factor of a multi-busbar module is 77.9%. This difference of 1.2% abs explains the differences in efficiency of both module types.

Is multi-busbar cell design better than a 3-busbar design?

Simulations demonstrated that the multi-busbar design allows higher cell and module efficienciescompared to a state of the art 3-busbar cell design,and in the same time reduces the amount of silver needed for the front electrode.

What is a multi-busbar connector?

In comparison, the multi-busbar connector discussed in this paper is similar to a classical stringer step followed by a standard lamination process: the solar cells are still interconnected in an alternating way, from the front side of one cell to the back side of the adjoining cell.

What is the difference between 3-busbar and multi-busbar solar cells?

This difference of 1.2% abs explains the differences in efficiencyof both module types. The 3-busbar solar cell modules have an average efficiency of 18.16%,but the multi-busbar modules could reach an average efficiency of 18.48%.

Why do we use multiple busbars?

The usage of multiple numbers of busbars also saves the panel from microcracking. Micro-cracks generally happen between busbars,the effect of these cracks is thus diminished towards smaller affected cell slices between two busbars.

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