

What is a multi busbar design?

As front electrode a multi busbar design was chosen. Hereby the busbars were exchanged by multiple wires which are connected to the perpendicularly orientated finger grid . An additional tabbing is not necessary for that kind of cell design. A big contributor to the loss in * Corresponding author.

What are the benefits of multi busbar grid geometry?

The multi busbar grid geometry increases the efficiency of solar cells incorporated in a module by 0.5% abs. In addition, the multi busbar cell concept can significantly save expensive Ag per cell. Another beneficial effect of the multi busbar concept is the geometry of the wires.

How do busbars reduce shading losses?

With the help of some openings (circular, triangular, rectangular etc.) within the busbars or some segmented structure of the busbars the shading losses may be further reduced as the covered area by busbars will be less which will reduce the total power losses. Fig. 7 shows different busbar patterns. Fig. 7.

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