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Title: Solar cell cabinet indicators

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What are solar cell key performance indicators?

Solar cell key performance indicators Solar cell KPI allow quantitative monitoring of the most significant production parameters. In this work, the selected KPI is the Laminated Unit Power (Lam-UP) which represents the average power produced by cells that can be laminated (power higher than 3.650 W and without any aesthetic defect).

What are the key performance indicators for cell and module devices?

Laminated unit power and cell to module ratio are the selected key performance indicators for cell and module devices respectively. Laminated unit power shows a power increase from 3.95 W to 4.20 W directly related with frontal serigraphy design. Cell to module ratio for [4.30-4.35) W cell range indicates a decrease from 7.7% to 6.5%.

How is a PV module KPI analyzed?

This PV module KPI is analyzed over a whole year. In PV module factories, the PV cells are received in packages of 100 units where the devices have been previously sorted by its P_{mp} value in discrete power ranges, for example [4.200-4.250) and [4.250-4.300) W with average values of 4.225 W and 4.275 W, respectively.

How to monitor cell production?

Concerning the cell production, it has successfully been monitored by the laminated unit power indicator along a month when shows an increment from 3.95 W to 4.20 W. Concerning module level, cell to module ratio per process cell range is selected as suitable indicator and monitoring during a year.

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