

Rolling Reliability Test in REC Solar and Correlation Between Reliability Test and Field Degradation

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Introduction: REC internal "Rolling Reliability Test" (RRT) has been established to periodically and systematically monitor the production with extended accelerated aging tests, to ensure the constant quality and reliability. Results from the reliability tests are then compared with the real-life field-aged modules for correlation study. While the studies on the acceleration factor of reliability tests are calculated mainly based on the maximum power, the acceleration impact for various parameters vary significantly. In order to study the correlation between reliability test and field degradation, it might be necessary to determine the acceleration factors for individual parameters.



Kurtz et al, 34th IEEE Photovoltaic Specialists Conference, Philadelphia, Pennsylvania, June 7–12, 2009.
Koehl et al, Solar Energy Materials & Solar Cells 99 (2012) 282-291.

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