

Certification

of the Main Test Results

Fraunhofer CSP has tested and evaluated the influence of the SolarCleanO cleaning robot L1 during operation in terms of mechanical and electrical stability of PV modules.

Module type: Jinko JKM440N-54HL4R-BDB
Sample type: 2 modules
Year of test: 2025
Test method: Cleaning passes incl. water
200 crossings in direction of module length
200 crossings perpendicular to the module length
Tested characteristics: Visual inspection
STC power measurement
Electroluminescence image

Result:

The operation of the SolarCleanO cleaning robot leads to no significant changes in module performance and no significant changes in electrical-mechanical integrity with the applied test methods.

Further details of the tests are documented in report V235/2025.

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