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Declaration
Project no. 21249281

Manufacturer: Aleo Solar, Marius-Eriksen-Str. 1, 17291 Prenzlau

Basis of testing: IEC 60068-2-68:1994: Environmental testing
Part 2-68: Test L: Dust and sand Method Lc2 Free blowing dust.

PV module type: X63

Herewith it is declared, that the above noted PV module type has successfully passed the test acc. to the above-mentioned standard. This test result is valid for the following PV module types with identical relevant components: X63, P23, X61, X81, X83, S81 sol, S83 sol.

The test was performed using the following parameters:

Blowing sand concentration: $2.2 \text{ g/m}^3 \pm 0.5 \text{ g/m}^3$

Test temperature: $63 \text{ °C} \pm 2 \text{ °C}$

Mean particle size: $380 \text{ }\mu\text{m}$, SiO₂ amount: > 95 %

Wind velocity: $18 \text{ m/s} \pm 2 \text{ m/s}$

Exposed area: 400 mm x 400 mm

Duration of test: 4 hours (120 minutes per exposed side)

Module orientation: vertical, 90° to the sand beam.

The test results are documented in the following test report and are only valid for the material as listed in the CDF for the above mentioned module types.

Report: 21249281.001

Business Field Solar & Commercial Products

i. V.

i. A.

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