IEC 61701:2011

Salt mist corrosion testing of photovoltaic (PV) modules

Confirmation of test results

Ref.: **10003/2017-40154**

Applicant: **Calyxo GmbH**
Sonnenallee 1a, 06766 Bitterfeld-Wolfen, Germany

Product: **Thin-film Terrestrial Photovoltaic (PV) Modules (CdTe)**

Type:
A) CX1 XX
B) CX3 XX
C) CX3pro XX
D) CX4 XX
E) CX1 XX / 2
F) CX3 XX / 2
G) CX3pro XX / 2
H) CX4 XX / 2

XX in the type replace the power in watt and can be any number between:

70 – 80 for A), E), 72 – 87 for B), 72 – 90 for C), D), 77 – 88 for F), 80 – 90 for G), H).

Manufacturer:	Calyxo GmbH	
Standard:	IEC 61701:2011	
Test conditions:	As given in IEC 61701:2011	
	Severity:	3
	Testing time:	7 days
	Mist ph level:	6,9
	Angle of inclination from horizontal:	60°

Pass criteria

Visual inspection:	No findings which may affect safety
Power degradation:	< 8 %*
Dry Insulation:	> 40 MΩm²
Wet insulation:	> 40 MΩm²

VDE RENEWABLES GMBH
Siemensstraße 30
63755 Alzenau, Germany
Managing Director: Burkhard Holder

Tel: +49 69 6308 5300
Fax: +49 69 6308 5320
Email: renewables@vde.com
www.vde.com/renewables

Location: Alzenau
District Court: Aschaffenburg
Registration No: HRB 13820
Tax Number: 204/141/20793

Bank Information:
Deutsche Bank AG
IBAN: DE14 5007 0010 0235 5006 01
BIC: DEUTDEFFXXX

Summary of test results:

Visual inspection:	No findings which affect safety	
Maximum power degradation:	allowed	< 8 %*
	measured	max. 5,2 %

There was no degradation measurable.

Dry insulation resistance:	required	≥ 56 MΩ
	measured	> 1000 MΩ

The measured dry insulation resistance is above the limit.

Wet insulation resistance:	required	≥ 56 MΩ
	measured	> 600 MΩ

The measured wet insulation resistance is above the limit.

* Initial and final stabilization in accordance with IEC 61215-1, IEC 61215-2 and IEC 61215-1-2 performed. Only max 8 % allowed degradation are based on the manufacturer's request. The IEC 61701 limit would be 10%.

The complete test results are given in the Test Report No.:
TRPVM-2017-40154-2

VDE Renewables GmbH

Norbert Lenck ***Arnd Roth***

63755 Alzenau, 2017-12-14