IEC 62716:2013
Photovoltaic (PV) modules - Ammonia corrosion testing
Confirmation of test results

VDE Renewables File Ref.: 10010/2016-40112

Applicant: Solibro GmbH
Sonnenallee 32-36, 06766 Bitterfeld-Wolfen, OT Thalheim, Germany

Product: Thin-film terrestrial photovoltaic (PV)-Modules

Type:

A) SL1-xx	B) SL1-xxF
C) SL2-xx	D) SL2-xxF

xx in the type replaces the power in Watt and can be any number between:

75 – 95	for A) and B)
85 – 150	for C) and D)

Manufacturer: Solibro GmbH

Standard: IEC 62716:2013, Ammonia corrosion testing

Test conditions/cycle:

Hours including heating up:	8h
NH_3 concentration:	6667 ppm
Chamber temperature:	60°C
Relative Humidity:	100%
Hours including cooling:	16h
NH_3 concentration:	0 ppm
Chamber temperature:	25°C
Relative Humidity:	75%
Total number of cycles:	20

Pass criteria

Power after test:	min. 90% of rated power
Dry insulation resistance:	>40 MΩm²
Wet insulation resistance:	>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

IEC 62716:2013
Photovoltaic (PV) modules - Ammonia corrosion testing
Confirmation of test results

Summary of test results:

Maximum power after test:	required	min. 121.5 W
	measured	min. 123.1 W

The measured power at STC is above the min. required power.

Dry insulation resistance:	required	42.55 MΩ
	measured	>1000 MΩ

The measured dry insulation resistance is above the limit.

Wet insulation resistance:	required	42.55 MΩ
	measured	>1000 MΩ

The measured wet insulation resistance is above the limit.

Visual inspection: No findings

The complete test results and the relevant bill of materials are given in Test Report No.: TRPVM-2016-40112-1

VDE Renewables GmbH

Dean Wen ***Arnd Roth***

63755 Alzenau, 2017-05-29

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