



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

Ref.: 10533/2021-40135

Applicant: SOLUXTEC SA
74, Rte de Luxembourg, 6633 WASSERBILLIG,
LUXEMBURG

Product: Crystalline Silicon Photovoltaic (PV)-Modules

Series: DAS MODUL Mono Serie FS, Powerslate Mono Serie FS

Type: A) DMMFSXXX, B) PSMFSXXX

Series: DAS MODUL Poly Serie FS, Powerslate Poly Serie FS

Type: C) DMPFSXXX, D) PSPFSXXX

Series: DAS MODUL Mono Serie FR60, PowerSlate Mono Serie FL60

Type: E) DMMXXXV2, F) PSMXXXV2

Series: DAS MODUL Multi Serie FR60, PowerSlate Multi Serie FL60

Type: G) DMPXXXV2, H) PSPXXXV2

XXX in the type replaces the power in Watt and can be any number between: 290 – 350 for A) and B), 260 – 275 C), D), G), and H), 290- 310 for E), 285 – 310 for F)

Manufacturer: Soluxtec GmbH

Standard: IEC 62716:2013

Test conditions:

Hours including heating up: 8 h

NH3 -concentration (ppm): 6667

Chamber temperature: 60°C

Relative Humidity: 100 %

Hours including cooling: 16 h

NH3 -concentration (ppm): 0

Chamber temperature: 25°C

Relative Humidity: 36 %



Pass criteria

Visual inspection:	No findings which may affect safety.
Power degradation:	< 5 %
Dry Insulation:	> 40 MΩm ²
Wet insulation:	> 40 MΩm ²
Bonding path resistance:	< 0.1 Ω
Bypass diode functionality test:	Bypass diodes shall remain functional.

Summary of test results:

Visual inspection: No findings.

Maximum power degradation: allowed < 5 %
measured max. 0,46 %

The measured degradation is below the max. allowed degradation.

Dry insulation resistance: required $\geq 23,91 \text{ M}\Omega$
measured min. 500 MΩ

The measured dry insulation resistance is above min. required insulation resistance.

Wet insulation resistance: required $\geq 23,91 \text{ M}\Omega$
measured min. 500 MΩ

The measured wet insulation resistance is above min. required insulation resistance.


Bonding path resistance: required < 0,1 Ω
measured max. 0,004 Ω

The measured bonding path resistance below the max. allowed bonding path resistance.

Bypass diode functionality test: Bypass diodes remain functional.

The complete test results and the related bill of materials are given in the Test Report No. TRPVM-2021-40135-1.

VDE Renewables GmbH


Dean Wen


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