



IEC 61701 ed. 2.0

Salt mist corrosion testing of photovoltaic (PV) modules

Ref.: 5005440-3972-0001/195272

Applicant: SolarWorld AG
Martin-Luther-King-Str. 24, 53175 Bonn

Product: Crystalline silicon Photovoltaic (PV)-Modules

Type: A) Sunmodule Plus SW XXX mono Y
A) Sunmodule Plus SW XXX poly Y
B) Sunmodule SW XXX XL mono Y
B) Sunmodule SW XXX XL poly Y
C) Sunmodule Plus SW XXX Vario poly Y
C) Sunmodule Plus SW XXX Vario mono Y
D) Sunmodule Protect SW XXX mono Y
D) Sunmodule Protect SW XXX poly Y
E) Sunmodule Plus SW XXX mono Y
E) Sunmodule Plus SW XXX poly Y
F) Sunmodule SW XX poly RMA
G) Sunmodule SW XX poly RGA
H) Sunmodule SW XX poly RNA
I) Sunmodule SW XX mono RHA
J) Sunmodule SW XXX poly RIB
K) Sunmodule SW XXX poly RGP
L) Sunmodule SW XXX poly R6A

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

200 – 300 for A), D), E); 260 – 360 for B); 184 – 240 for C); 50 – 55 for F); 50 for G);
80 - 85 for H), I); 100 for J), K); 140 – 160 for L)

Y in the type replaces a potential suffix and can be black or clear.

Manufacturer: SolarWorld AG

Standard: IEC 61701 ed.2.0

Test conditions: As given in IEC 61701 ed. 2.0

Severity:	6
Testing time:	56 days
Mist ph level:	6,9
Angle of inclination from horizontal:	60°





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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 which may affect safety

Maximum power degradation: required < 5 %
measured min. + 0,95%

There was no degradation measurable.

Dry insulation resistance: required $\geq 23,81 \text{ M}\Omega$
measured min. 500 MΩ

The measured dry insulation resistance is above the limit.

Wet insulation resistance: required $\geq 23,81 \text{ M}\Omega$
measured min. 268 MΩ

The measured wet insulation resistance is above the limit.

Bonding path resistance: required < 0,1 Ω
measured max. 0,04 Ω

The measured bonding path resistance is below the limit.





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Bypass diode functionality test: Bypass diodes remain functional

The complete test results are given in the Test Reports No.:
Report_ET2_195272-1 and Report_ET2_195272-2.

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
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