



TS IEC 62804: draft 2013-12

Test Method for Detection of Potential Induced Degradation of Photovoltaic (PV) Modules

Ref.: 5005440-3972-0001/195271

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 Plus SW XXX mono Y
- B) Sunmodule Plus SW XXX poly Y
- C) Sunmodule Plus SW XXX Compact mono Y
- C) Sunmodule Plus SW XXX Compact poly Y
- D) Sunmodule SW XXX XL mono Y
- D) Sunmodule SW XXX XL poly Y
- E) Sunmodule Plus SW XXX Vario poly Y
- E) Sunmodule Plus SW XXX Vario mono Y
- F) Sunmodule Plus SW XXX Compact mono Y
- G) Sunmodule Protect SW XXX mono Y
- G) Sunmodule Protect SW XXX poly Y
- H) Sunmodule Plus SW XXX mono Y
- H) Sunmodule Plus SW XXX poly Y
- I) Sunmodule SW XX poly RMA
- J) Sunmodule SW XX poly RGA
- K) Sunmodule SW XX poly RNA
- L) Sunmodule SW XX mono RHA
- M) Sunmodule SW XXX poly RIB
- N) Sunmodule SW XXX poly RGP
- O) Sunmodule SW XXX poly R6A

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

135 – 195 for A), 200 – 300 for B), G), H), 130 – 170 for C), F), 260 – 360 for D), 184 – 240 for E),
50 – 55 for I), 50 for J), 80 - 85 for K), 80 for L), 100 for M), N), 140 – 160 for O)

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

Manufacturer: SolarWorld AG

Standard: TS IEC 62804: draft 2013-12, modified

Test conditions

Testing time:	96 h
Chamber temperature:	60 °C
Relative Humidity:	85 %
Potential to ground:	- 1000 V





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Pass criteria

Power degradation:	< 5%
Dry Insulation:	> 40 MΩm ²
Wet insulation:	> 40 MΩm ²

Summary of test results:

Maximum power degradation:	required	max. 5 %
	measured	max. 2,75 %

The measured degradation is below the allowed degradation.

Dry insulation resistance:	required	23,81 MΩ
	measured	>500 MΩ

The measured dry insulation resistance is above the limit.

Wet insulation resistance:	required	23,81 MΩ
	measured	>500 MΩ

The measured wet insulation resistance is above the limit.

Visual inspection: No findings

The complete test results are given in Test Report No.: Report_ET2_195271.

VDE Prüf- und Zertifizierungsinstitut GmbH

VDE Testing and Certification Institute

Fachgebiet ET2 / Section ET2


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