Confirmation of Test Result

IEC TS 62804-1:2015

Photovoltaic (PV) Modules - Test methods for the detection of potential-induced degradation – Part1: Crystalline silicon

Ref.: **TRPVM-2017-40006-3**

Applicant: **HYUNDAI HEAVY INDUSTRIES GREEN ENERGY CO., LTD., 14th Floor, Hyundai Building, 75, Yulgok-ro, Jongno-gu, Seoul, 03058, Republic of Korea**

Manufacturer: **HYUNDAI HEAVY INDUSTRIES GREEN ENERGY CO., LTD.**

Product: **Crystalline silicon Photovoltaic (PV)-Modules**

Standard: **IEC TS 62804-1:2015**

Type:

1) HiS-MxxxRI
2) HiS-SxxxRI
3) HiS-MxxxMI
4) HiS-SxxxMI
5) HiS-MxxxMF(BK)
6) HiS-SxxxMF(BK)
7) HiS-MxxxMG(BK)
8) HiS-SxxxMG(BK)
9) HiS-MxxxRF(BK)
10) HiS-SxxxRF(BK)
11) HiS-MxxxTF(BK)
12) HiS-SxxxTF(BK)
13) HiS-MxxxRG(BK)
14) HiS-SxxxRG(BK)
15) HiS-MxxxTG(BK)
16) HiS-SxxxTG(BK)
17) HiS-MxxxTI
18) HiS-SxxxTI
19) HiS-MxxxRW
20) HiS-SxxxRW
21) HiS-MxxxTW
22) HiS-SxxxTW

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

290-330 for 1), 300-345 for 2), 273-315 for 3), 280-318 for 4), 190-230 for 5), 190-243 for 6), 203-255 for 7), 220-270 for 8), 215-250 for 9), 225-255 for 10), 215-250 for 11), 225-255 for 12), 240-280 for 13), 245-295 for 14), 240-280 for 15), 245-295 for 16), 290-330 for 17), 300-345 for 18), 235-270 for 19), 250-290 for 20), 235-270 for 21), 250-290 for 22)

The extension (BK) is optionally and indicates black version of backsheet.

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Test conditions	Testing time:	600 h
	Chamber temperature:	85 °C
	Relative Humidity:	85 %
	Potential to ground:	- 1000 V
Pass criteria	Power degradation:	< 5%

Summary of test results:

Maximum power degradation:	required	max. 5 %
	measured	max. 3,94 %

The measured degradation is below the allowed degradation.

Visual inspection: No findings

The complete test results are given in Test Report: TRPVM-2017-40006-3
Valid only for the material combination as listed in the above mentioned test report.

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
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