



IEC TS 62804-1:2015

Photovoltaic (PV) Modules - Test Methods for the detection of potential-induced degradation

Part 1: Crystalline silicone
Confirmation of test results

File Ref.: 10004/2020-40391

Applicant: Changzhou EGing Photovoltaic Technology Co., Ltd.
No. 18 Jinwu Road, 213213 Jintan City, China

Product: Crystalline silicon Photovoltaic (PV)-Modules

Type:	BF) EG-XXXP72-HC	BE) EG-XXXP60-HC
	AD) EG-XXXM72-HDV	AH) EG-XXXM60-HDV
	AJ) EG-XXXM72-HD	AL) EG-XXXM60-HD
	AF) EG-XXXM72-HD/BF-DG	AN) EG-XXXM60-HD/BF-DG
	AU) EG-XXXM72-HE/BF-DG	AV) EG-XXXM60-HE/BF-DG
	AS) EG-XXXM72-HE	AT) EG-XXXM60-HE
	BC) EG-XXXM84-HE	BD) EG-XXXM78-HE
	AY) EG-XXXM84-HE/BF-DG	AZ) EG-XXXM78-HE/BF-DG
	BG) EG-XXXM78-HDV	BH) EG-XXXM66-HDV
	BI) EG-XXXM78-HD	BJ) EG-XXXM66-HD
	BK) EG-XXXM78-HD/BF-DG	BL) EG-XXXM66-HD/BF-DG

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

360 – 440 for AD), AJ), AF)

320 – 365 for BF)

425 – 480 for AU), AS)

500 – 560 for BC), AY)

420 – 470 for BG), BI), BK)

300 – 365 for AH), AL), AN)

270 - 305 for BE),

350– 400 for AV), AT)

455 – 520 for BD), AZ)

355 – 400 for BH), BJ), BL)

Manufacturer: Changzhou EGing Photovoltaic Technology Co., Ltd.

Standard: IEC TS 62804-1:2015

Test conditions

Testing time: 192 h

Chamber temperature: 85°C

Relative humidity: 85 %

Potential to ground: - 1500 V for AF), AN), AU), BG), BK)
- 1000 V for AS), AT), BE)

Pass criteria

Power Degradation: < 5%

Dry Insulation Resistance: > 40 MΩm²

Wet Insulation Resistance: > 40 MΩm²

Visual Inspection: No findings



Summary of test results:

Maximum Power Degradation:	allowed	max. 5 %
	measured	max. 1.05 %

The measured degradation is below the allowed degradation.

Dry Insulation Resistance:	required	min. 19.5 M Ω for AF) min. 23.5 M Ω for AN) min. 18.4 M Ω for AU), AS) min. 18.5 M Ω for BG), BK) min. 22.0 M Ω for AT) min. 24.4 M Ω for BE)
	measured	>1000 M Ω

The measured dry insulation resistance is above the limit.

Wet Insulation Resistance:	required	min. 19.5 M Ω for AF) min. 23.5 M Ω for AN) min. 18.4 M Ω for AU), AS) min. 18.5 M Ω for BG), BK) min. 22.0 M Ω for AT) min. 24.4 M Ω for BE)
	measured	>1000 M Ω

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-2020-40391-1 and TRPVM-2020-40391-2. The overview of the already approved modules with the approved bill of materials is given in Annex 1, dated 2020-10-01.

VDE Renewables GmbH


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