

IEC 62716:2013 Ammonia corrosion testing Confirmation of test results

VDE Renewables Ref.: 10804/2023-40847				
Applicant:	MEYER BURGER (INDUSTRIES) GMBH Carl-Schiffner-Straße 17, 09599 FREIBERG, Germany			
Manufacturer:	MEYER BURGER (INDUSTRIES) GMBH			
Product:	Crystalline Silicon Photovoltaic (PV)-Modules			
Туре:	 A) MEYER BURGER GLASS B) MB_WG144CyS_xxx C) MB_WG144CyA_xxx D) MB_WG144CyJ_xxx Power in Watt @ STC: For A) 360 – 395, B), C), D) xxx = 540 – 555 			
Standard:	IEC 62716:2013, Ammonia corrosion test			
Test conditions				
-	Hours including heating up: NH3 -concentration (ppm): Chamber temperature: Relative Humidity: Hours including cooling: NH3 -concentration (ppm): Chamber temperature: Relative Humidity:	8 h 6667 60°C 100 % 16 h 0 23°C 75 %		
Pass criteria				

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Summary of test results:

Maximum power degradation:	allowed	max. 5 %
	measured	max. 0.78 %

The measured degradation is below the allowed degradation.

Dry insulation resistance:	required	min. 22.4 MΩ
	measured	>1000 MΩ

The measured dry insulation resistance is above the minimum required insulation resistance.

Wet insulation resistance:	required	min. 22.4 MΩ
	measured	>1000 MΩ

The measured wet insulation resistance is above the minimum required wet insulation resistance.

Grounding resistance:	allowed	max. 0.1Ω
	measured	max. 0.014 Ω

The measured grounding resistance is below the maximum allowed grounding resistance.

Bypass diode functionality test: Still functional after test

The complete test results and the relevant bill of materials are given in Test Report No.: TRPVM-2023-40847-2.

VDE Renewables GmbH

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Dean Wen 63755 Alzenau, 2024-04-09

A. Roth

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