

**TÜV Rheinland Energy GmbH
Solar Energy**

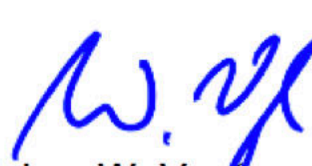
Test Report

Photovoltaic module measurement

Report No. 21238132.001

Cologne, June 2017



Test report no.: <i>Prüfbericht - Nr.:</i>	21238132.001		
Client <i>Auftraggeber</i>	Bio Eco Active srl Via San Donato, 5 Granarolo dell'Emilia (BO) Italy		
Test item: <i>Gegenstand der Prüfung:</i>	Photovoltaic (PV) Modules	Date of receipt: <i>Eingangsdatum:</i>	16 November 2016
Order no.: <i>Auftragsnummer:</i>	21238132	Quotation no.: <i>Angebotsnummer:</i>	8393822a
Testing location: <i>Prüfart:</i>	Solar Energy Assessment Center Cologne TÜV Rheinland Energy GmbH Am Grauen Stein, 51105 Cologne, Germany Tel.: +49 221 806-2477, Fax: + 49 221 806-1350		
Test specification: <i>Prüfgrundlage:</i>	IEC 60904-1:2006 , Photovoltaic devices – Part 1: Measurement of photovoltaic current-voltage characteristics IEC 60904-3:2008 , Photovoltaic devices – Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data IEC 60904-9:2007 , Photovoltaic devices – Part 9: Solar simulator performance requirements IEC 60891:2009 , Procedures for temperature and irradiance corrections to measured I-V characteristics of photovoltaic devices IEC 61215:2015 , Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval IEC 62716:2013 , Photovoltaic (PV) modules – Ammonia corrosion testing MIL-STD-810G , Environmental engineering considerations and laboratory test, Test Method 510.5 Sand and Dust		
compiled by / erstellt:	reviewed by / kontrolliert:		
Name: Gerhard Mathiak Grund: Unterschrift Datum: 04.07.2017 11:50:55 (UTC+02:00)			
30 June 2017	Dr. G. Mathiak	30 June 2017	Dipl.-Ing. W. Vaasen
Date <i>Datum</i>	Title/Name <i>Titel/Name</i>	Date <i>Datum</i>	Title/Name <i>Titel/Name</i>
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