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Q-Cells SE  
R&D Modules / Certification&Reliability  
Mrs. Wiebke Engler  
Sonnenallee 17-21

06766 Thalheim

Berlin, 2011-08-30  
Customer no.: D002169

Order no.: 4410010749  
Order of: 2011-02-23  
Date of del.: 2011-08-30  
Report no.: A110062

\* Dieser Bericht umfasst 6 Seiten/ This report comprises pages: 6  
Alle Blätter sind einseitig beschrieben / The text is on the front side only.

## Untersuchungsbericht / Investigation Report A110062-8

**Auftraggeber/  
Customer:** Q-Cells SE  
Mrs. Wiebke Engler  
Sonnenallee 17-21  
06766 Thalheim

**Projectmanager:** Marco Kämpfert

**Eingangsdatum der Proben /  
Date of arrival of sample/s:** 2011-03-16  
Return delivery of the DUT: 2011-07-28

**Probenbeschreibung /  
Description of sample/s:** Q-PEAK

**Prüfspezifikation /  
Test specification:** Noxious gas test in accordance with DIN EN 60068-2-43, DIN EN 60068-2-60  
Single gas test **NH<sub>3</sub>**  
Concentration: (750 ± 5) ppm,  
Duration: 10 days  
Temperature: (40 ± 1)°C  
Humidity: (75 ± 2)%

**Ergebnis /  
Result:** No damage to the module ascertained. No change of surfaces,  
No dull areas, no contamination / film detectable.

Berlin, 2011-08-30

.....  
Unterschrift / Signature



Untersuchungsbericht / Test report 110062-8

1. Untersuchungsgegenstände / Test objects

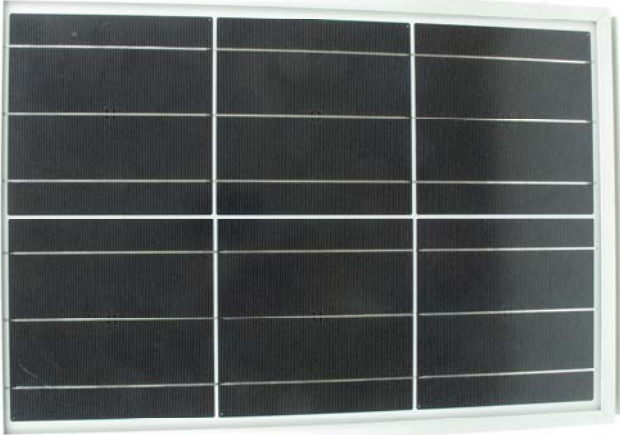

Probenbeschreibung / sample denomination	Technolab's Prüflings-Nr. / Technolab sample no.	Proben / Samples
<p>Q.PEAK ML14807 ML14808</p>	<p>110062-NH3 110062-NH3</p>	 <p>Photo 1</p>  <p>Photo 2</p>

Table 1

## 2. Untersuchungsauftrag / Test issue

Optical inspection of the samples before and after test.

Noxious gas test in accordance with DIN EN 60068-2-43, DIN EN 60068-2-60:

Test parameters	
Test temperature	$(40 \pm 1)^\circ\text{C}$
Noxious gas concentration	$\text{NH}_3 = (750 \pm 5) \text{ ppm}$
Relative humidity	$(75 \pm 2)\%$
Test duration	10 days

**Table 2**

### 3. Umweltsimulation / Environmental Simulation

#### Illustrated documentation of the test

All samples in the noxious gas test chamber before the test.



Foto 3

Table 3

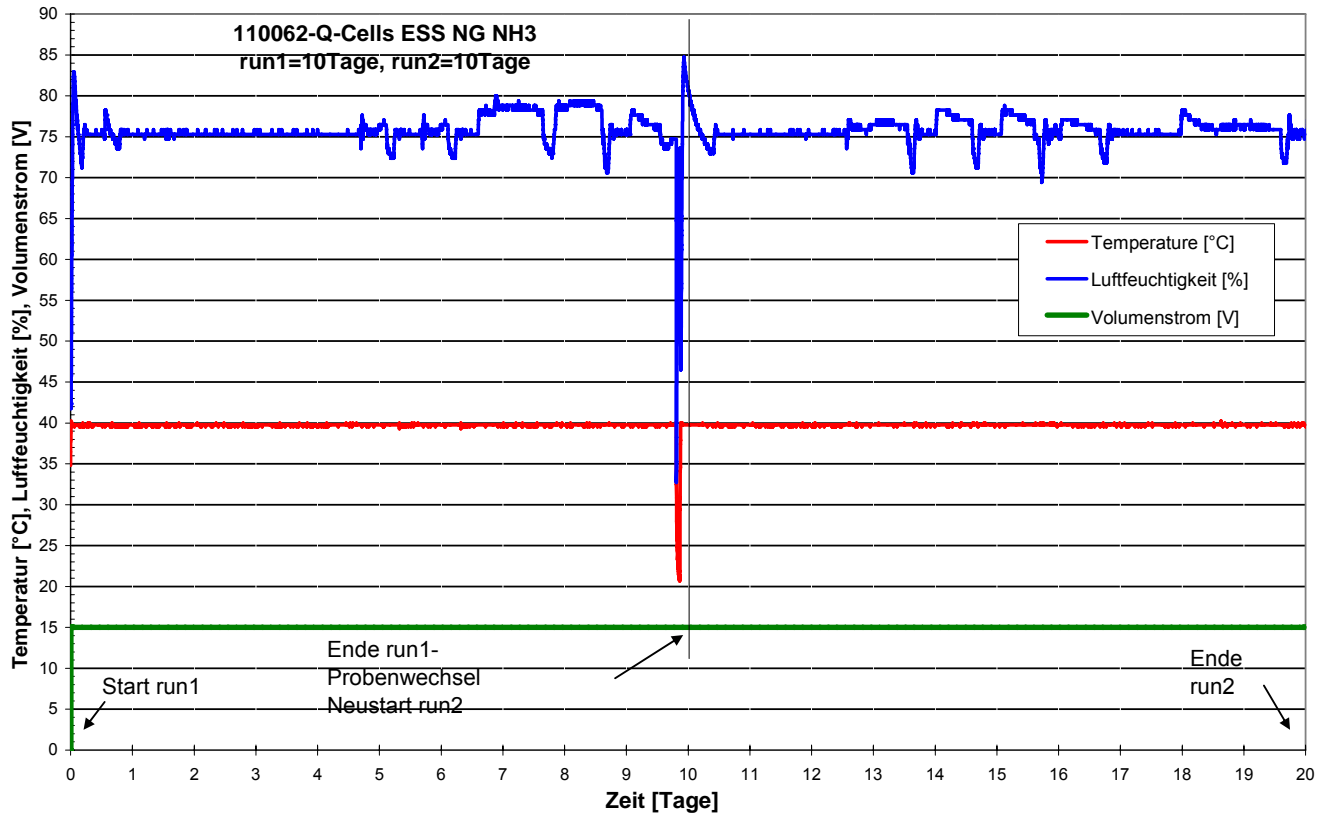


Diagram 1

## 4. Optische Inspektion / Optical / Visual Inspection

A visual inspection is carried out on the parts accessible from outside without dismantling the samples.  
The inspection is executed before and after the test.  
Inspection and documentation are carried out in artificial light (fluorescent tubes cool white).  
Optical / Visual inspection is done with the bare eye and with a Canon PowerShot A650 IS digital camera.

## 5. Ergebnisse / Results

The test was executed as described under 2.  
After the test no damage could be ascertained.  
Further tests will be carried out by the ordering party.

Berlin, 2011-08-30

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Unterschrift / Signature

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Unterschrift / Signature