

# Factory Inspection Certificate

Registration No.: AK 60040320

Page 1

Report No.: 21172338.001

**License Holder:**  
ALGATEC Solar AG  
Kotschkaer Weg 8  
04932 Röderland  
Germany

**Product:**  
**PV Module**  
Type:  
ASM poly x-6  
ASM poly x-6 black  
ASM poly x-6 CS  
ASM poly x-6 CS black

**Manufacturing Plant:**  
ALGATEC Solar AG  
Kotschkaer Weg 8  
04932 Röderland  
Germany

ASM mono x-6  
ASM mono x-6 black  
ASM mono x-6 CS  
ASM mono x-6 CS black  
(power classes from 195 Wp - 240 Wp)  
(x = 1,3,5 stands for the cell manufacturer)

QC-200  
LS 200

ASM poly x-6  
ASM poly x-6 black  
ASM poly x-6 CS  
ASM poly x-6 CS black

(power classes from 200 Wp - 250 Wp)  
(x = 2 stands for the cell manufacturer)

The above listed module types are manufactured in the European Union. The manufacturing plant is under a periodic factory surveillance programme in the frame of TÜV Rheinland type approval certification according to IEC 61215:2005 and IEC 61730:2004.

These main production steps are taking place in the above listed plant:

- Cell stringing and connection of strings
- Assembly / Lamination
- Electrical tests

**Remarks:**

Further information can be found in the attachment of the factory inspection certificate



Cologne, 02 August 2011

Dipl.-Ing. M. Adrian

## Annex to Factory Inspection Certificate

Registration No.: AK 60040320

Report No.: 21172338.001

**Licence Holder:**

ALGATEC Solar AG  
Kotschkaer Weg 8  
04932 Röderland  
Germany

**Manufacturing Plant:**

ALGATEC Solar AG  
Kotschkaer Weg 8  
04932 Röderland  
Germany

**Certificates:**

Registration no.  
PV 60032277, PV 60034352 (valid until 15 July 2015)

The above listed plant is traceable by an identification code on the type label.

**Identification coding:**

Explanation of Identification code:

Each module is marked with a 10 digit serial number. The third digit stands for one of the two manufacturing sites of ALGATEC Solar AG (for explanation of serial no. see below).

1	1	1	0	0	0	0	0	0	1
Year	Year	Factory	Number	Number	Number	Number	Number	Number	Number

Factory-code: 0 = Röderland; 1 = Großräschen

Sample: SN 1110000100 (produced in 2011 in Großräschen, 100th module in this year)

Cologne, 02 August 2011



Dipl.-Ing. M. Adrian

# Factory Inspection Certificate

Registration No.: AK 60040319

Page 1

Report No.: 21172343.001

**License Holder:**  
ALGATEC Solar AG  
Kotschkaer Weg 8  
04932 Röderland  
Germany

**Product:**  
**PV Module**  
Type:  
ASM poly x-6  
ASM poly x-6 black  
ASM poly x-6 CS  
ASM poly x-6 CS black

**Manufacturing Plant:**  
ALGATEC Solar AG  
Betriebsstätte Großräschen  
Woschkower Weg 19  
01983 Großräschen  
Germany

ASM mono x-6  
ASM mono x-6 black  
ASM mono x-6 CS  
ASM mono x-6 CS black  
(power classes from 195 Wp - 240 Wp)  
(x = 1,3,5 stands for the cell manufacturer)

QC-200  
LS 200

ASM poly x-6  
ASM poly x-6 black  
ASM poly x-6 CS  
ASM poly x-6 CS black

(power classes from 200 Wp - 250 Wp)  
(x = 2 stands for the cell manufacturer)

The above listed module types are manufactured in the European Union. The manufacturing plant is under a periodic factory surveillance programme in the frame of TÜV Rheinland type approval certification according to IEC 61215:2005 and IEC 61730:2004.

These main production steps are taking place in the above listed plant:

- Cell stringing and connection of strings
- Assembly / Lamination
- Electrical tests

**Remarks:**

Further information can be found in the attachment of the factory inspection certificate.



Cologne, 02 August 2011

Dipl.-Ing. M. Adrian

## Annex to Factory Inspection Certificate

Registration No.: AK 60040319

Report No.: 21172343.001

**Licence Holder:**

ALGATEC Solar AG  
Kotschkaer Weg 8  
04932 Röderland  
Germany

**Manufacturing Plant:**

ALGATEC Solar AG  
Betriebsstätte Großräschen  
Woschkower Weg 19  
01983 Großräschen  
Germany

**Certificates:** Registration no.  
PV 60032277, PV 60034352 (valid until 15 July 2015)

The above listed plant is traceable by an identification code on the type label.

**Identification coding:**

Explanation of Identification code:

Each module is marked with a 10 digit serial number. The third digit stands for one of the two manufacturing sites of ALGATEC Solar AG (for explanation of serial no. see below).

1	1	1	0	0	0	0	0	0	1
Year	Year	Factory	Number	Number	Number	Number	Number	Number	Number

Factory-code: 0 = Röderland; 1 = Großräschen

Sample: SN 1110000100 (produced in 2011 in Großräschen, 100th module in this year)

Cologne, 02 August 2011



Dipl.-Ing. M. Adrian

VDE Prüf- und Zertifizierungsinstitut GmbH • Merianstraße 28 • D-63069 Offenbach

ALGATEC Solar AG

Kotschkaer Weg 8  
D-04932 RÖDERLAND/OT PRÖSEN

Germany



Offenbach, 2011-07-28

Your ref.  
5007176

Your letter  
28.07.2011

Our ref. - please indicate  
FG82/het

Contact  
Mr. Herbert  
Tel (+49) (69) 83 06-602  
Fax (+49) (69) 83 06-850  
roland.herbert@vde.com

## Confirmation letter

Regarding your enquiry for a document which, since July 11<sup>th</sup> 2011, is requested in Italy by GSE (Gestore Servizi Energetici) under the name of "Factory Inspection Certificate", we can give you the following information:

In order to obtain a VDE-certificate it is mandatory to successfully pass a test in accordance with the relevant DIN VDE, EN, or IEC product standard.

The base is our PM 102-testing and certification procedure (a pdf file is available upon request).

Further more VDE requires a 100% routine test at the end of the line. The routine tests and requirements for PV-Modules are described in our PM 434 (a pdf file is available upon request).

Before a VDE-licence is issued, a successfully passed factory inspection at each factory listed in the certificate is needed (see PM 102, clause 5.4 and 5.5). To maintain the certificate an annual inspection in each listed factory is needed.

The base for the Inspections is the Document CIG 23, issued by the European Electrical Products Certification Association.

All in the VDE-licence 40021879 listed PV modules are manufactured in the on page 2 and 3 mentioned factory.



**a) Product identification code:**

Each module bears an individual serial number, containing:

Digit 1 to 2) Year of manufacture (11 = for year 2011

12 = for year 2012

13 = for year 2013.....)

Digit 3) Place of manufacture 0 for Production plant Prösen

Digit 4 to 10) serial number 0000001 to 9999999

Example for serial number: 1100000001

**b) Place of Manufacture**Manufacturer adress

ALGATEC Solar AG

Kotschkaer Weg 8

D-04932 RÖDERLAND/OT PRÖSEN

Germany

The assembly process includes:

- Soldering and stringing of cell

- Laminating and framing

- Final inspection and testing for electrical safety and STC power measurement

The movement of semi-finished Modules between the factories is in general not permitted by VDE.

Please do not hesitate to contact me if you have further questions.

Best regards

VDE Prüf- und Zertifizierungsinstitut GmbH

*VDE Testing and Certification Institute*

Section FG82



Roland Herbert



A COMPANY OF THE **VDE ASSOCIATION FOR ELECTRICAL, ELECTRONIC & INFORMATION TECHNOLOGIES**

Managing Director  
Dipl.-Ing./Dipl.-Kfm. Wilfried Jäger  
Merianstrasse 28  
D-63069 Offenbach  
Phone: +49 (0) 69 83 06-0  
Fax: +49 (0) 69 83 06-555  
E-mail: vde-institut@vde.com  
http://www.vde.com

Venue:  
Offenbach/Main  
HRB 43618  
VAT-IDNo.: DE261922990  
Tax No.: 04425092566

Make Payments to  
Commerzbank AG  
BLZ 500 800 00  
Account-No.: 198 027 000  
S.W.I.F.T.-Code:  
DRES DE FF XXX  
IBAN  
DE 9150080000198027000

Notified Body according to the Equipment and Product Safety Act (GPSG) for technical work equipment and consumer products. Notified body according to the EMC Directive 2004/108/EG for Electromagnetic Compatibility (EMC). Accredited by DAR accreditation bodies according to DIN EN ISO/IEC 17020, 17021, 17025 and DIN EN 45011. Accredited by: IEC – International Electrotechnical Commission – IECCE/CB, IECQ and CENELEC – European committee for Electrotechnical Standardization – CCA, HAR, ENEC.

# VDE Prüf- und Zertifizierungsinstitut

VDE VERBAND DER ELEKTROTECHNIK  
ELEKTRONIK INFORMATIONSTECHNIK e.V.

## ZERTIFIKAT CERTIFICATE

für die überwachte Fertigungsstätte  
for the approved Place of Manufacture

**ALGATEC Solar AG**  
Kotschkaer Weg 8  
04932 Röderland/OT Präsen

Die Überwachung erfolgt nach dem  
Harmonisierten Werksinspektions-  
Verfahren - Anforderungen (CIG 021 bis 024).  
Die Anforderungen wurden erfüllt:

**Produkt-Kategorie:**  
Terrestrische Photovoltaik-Module mit  
Silizium-Solarzellen

This surveillance is performed according to the  
Harmonized Factory Inspection  
Procedure - Requirements (CIG 021 to 024).  
The requirements have been fulfilled:

**Product Category:**  
Crystalline silicon terrestrial  
photovoltaic modules

**Datum der letzten Inspektion/  
Date of last inspection:**

2011-01-18

VDE Prüf- und Zertifizierungsinstitut GmbH/VDE Testing and Certification Institute  
Werksinspektion und Konformitätsüberwachung/Factory Inspection and Conformity Control

gez. i. A. Thomas Bilz

Offenbach, 2011-08-01



Dieses Zertifikat ist nicht übertragbar auf andere Fertigungsstätten; es berechtigt nicht zum Führen eines  
VDE-Zeichens. Die VDE Prüf- und Zertifizierungsinstitut GmbH ist durch DGA nach DIN EN ISO/IEC 17020 und  
17021 akkreditiert.

*This Certificate is not transferable to other places of manufacture, it does not authorize to use any VDE  
Mark. The VDE Testing and Certification Institute is accredited by DGA based upon DIN EN ISO/IEC 17020  
and 17021.*

Registriernr./Registration No.: DAT-I-014/07 und/and TGA-ZM-09-92



A COMPANY OF THE **VDE ASSOCIATION FOR ELECTRICAL, ELECTRONIC & INFORMATION TECHNOLOGIES**

Managing Director  
Dipl.-Ing./Dipl.-Kfm. Wilfried Jäger  
Merianstrasse 28  
D-63069 Offenbach  
Phone: +49 (0) 69 83 06-0  
Fax: +49 (0) 69 83 06-555  
E-mail: vde-institut@vde.com  
http://www.vde.com

Venue:  
Offenbach/Main  
HRB 43618  
VAT-IDNo.: DE261922990  
Tax No.: 04425092566

Make Payments to  
Commerzbank AG  
BLZ 500 800 00  
Account-No.: 198 027 000  
S.W.I.F.T.-Code:  
DRES DE FF XXX  
IBAN  
DE 9150080000198027000

Notified Body according to the Equipment and Product Safety Act (GPSG)  
for technical work equipment and consumer products. Notified body  
according to the EMC Directive 2004/108/EG for Electromagnetic  
Compatibility (EMC). Accredited by DAR accreditation bodies according  
to DIN EN ISO/IEC 17020, 17021, 17025 and DIN EN 45011.  
Accredited by: IEC – International Electrotechnical Commission –  
IECEE/CB, IECQ and CENELEC – European committee for  
Electrotechnical Standardization – CCA, HAR, ENEC.