

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

Solar-Fabrik AG

Munzinger Strasse 10
79111 Freiburg / Germany



Offenbach, 2011-07-21

Your ref.
5002983

Your letter
21.07.2011

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

Dear Mr Link,

Regarding your enquiry for a document which, since July 11th 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 40027893 listed PV modules are manufactured in the on page 2 mentioned factories.



a) Place of ManufactureReference - Manufacturer addresses

30014734 Solar-Fabrik AG / Abrichstraße 4 / 79108 Freiburg / Germany

30019677 Solar-Fabrik AG / Bebelstraße 6 / 79108 Freiburg / Germany

b) Product identification code:

Each module bears an individual serial number, containing 16 or 18 digits:

JJ-KKKK-XXXXXXXXXX(XX):

Digit 1-2) Year of manufacture

Digit 3-7) Code number for type and power

Digit 8-18) Serial number

Code number (KKKK)	Type	STC Power
0740	Premium S poly	130,00 W
0741	Premium S poly	115,00 W
0742	Premium S poly	120,00 W
0743	Premium S poly	125,00 W
0744	Premium S poly	135,00 W
0745	Premium S poly	140,00 W
0746	Premium S poly	145,00 W
0751	Premium S poly (QK2)	125,00 W
0752	Premium S poly (QK2)	135,00 W

0900	Premium S mono	130,00 W
0902	Premium S mono	120,00 W
0903	Premium S mono	125,00 W
0904	Premium S mono	135,00 W
0905	Premium S mono	140,00 W
0906	Premium S mono	145,00 W
0911	Premium S mono (QK2)	125,00 W
0912	Premium S mono (QK2)	135,00 W

0805	Premium M mono	155,00 W
0806	Premium M mono	160,00 W
0807	Premium M mono	165,00 W



0808	Premium M mono	170,00 W
0809	Premium M mono	175,00 W
0810	Premium M mono	180,00 W
0814	Premium M mono	185,00 W
0815	Premium M mono (QK2)	160,00 W
0816	Premium M mono (QK2)	175,00 W

0920	Premium L poly	200,00 W
0921	Premium L poly	210,00 W
0923	Premium L poly	215,00 W
0925	Premium L poly	220,00 W
0926	Premium L poly	225,00 W
0927	Premium L poly	230,00 W
0928	Premium L poly	235,00 W
0929	Premium L poly	240,00 W
0934	Premium L poly (QK2)	205,00 W
0935	Premium L poly (QK2)	225,00 W

1220	Premium L mono	215,00 W
1221	Premium L mono	220,00 W
1222	Premium L mono	225,00 W
1223	Premium L mono	230,00 W
1224	Premium L mono	235,00 W
1225	Premium L mono	240,00 W
1226	Premium L mono	245,00 W
1227	Premium L mono 245S	245,00 W
1231	Premium L mono (QK2)	220,00 W
1232	Premium L mono (QK2)	235,00 W

1480	Premium XM mono black	180,00 W
1481	Premium XM mono black	185,00 W
1482	Premium XM mono black	187,50 W
1483	Premium XM mono black	190,00 W
1484	Premium XM mono black	195,00 W
1485	Premium XM mono black	200,00 W



1486	Premium XM mono black	205,00 W
1487	Premium XM mono black	195,00 W
1491	Premium XM mono black (QK2)	185,00 W
1492	Premium XM mono black (QK2)	200,00 W

1580	Premium XM mono black	180,00 W
1581	Premium XM mono black	185,00 W
1582	Premium XM mono black	187,50 W
1583	Premium XM mono black	190,00 W
1584	Premium XM mono black	195,00 W
1585	Premium XM mono black	200,00 W
1586	Premium XM mono black	205,00 W
1591	Premium XM mono black (QK2)	185,00 W
1592	Premium XM mono black (QK2)	200,00 W

1660	Premium XM mono	180,00 W
1661	Premium XM mono	185,00 W
1662	Premium XM mono	187,50 W
1663	Premium XM mono	190,00 W
1664	Premium XM mono	195,00 W
1665	Premium XM mono	200,00 W
1666	Premium XM mono	205,00 W
1671	Premium XM mono (QK2)	185,00 W
1672	Premium XM mono (QK2)	200,00 W



c) 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**

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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 – IEC/IEC/CB, IECQ and CENELEC – European committee for Electrotechnical Standardization – CCA, HAR, ENEC.

VDE Prüf- und Zertifizierungsinstitut

VDE VERBAND DER ELEKTROTECHNIK
ELEKTRONIK INFORMATIONSTECHNIK e.V.

Z E R T I F I K A T C E R T I F I C A T E

für die überwachte Fertigungsstätte
for the approved Place of Manufacture

Solar-Fabrik AG
Werk 3
Bebelstr. 6
79108 Freiburg

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

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

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

Product Category:
Crystalline silicon terrestrial
photovoltaic modules

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

2010-10-13

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

gez. i. A. Thomas Bilz

Offenbach, 2010-10-26

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



VDE Prüf- und Zertifizierungsinstitut

VDE VERBAND DER ELEKTROTECHNIK
ELEKTRONIK INFORMATIONSTECHNIK e.V.

Z E R T I F I K A T C E R T I F I C A T E

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