



# ZERTIFIKAT CERTIFICATE

für die überwachte Fertigungsstätte  
*for the approved Place of Manufacture*

**LG Electronics Inc.**  
**#191-1, Gongdan-Dong**  
**Gumi-City, Gyongbuk,**  
**730-030, Korea**  
**Fertigungsstätten Nr. /Factory No.: 30021251**

Die Überwachung der Fertigungsstätte erfolgte nach dem europäischen Werksinspektions-Verfahren auf Basis der folgenden Schriftstücke: / *The surveillance of the factory was performed according to the European Factory Inspection Procedure based on the following documents:*

**ECS/CIG 021 – 024**  
Mai/May 2009

**Werksinspektionsverfahren, Harmonisierte Anforderungen/  
Factory Inspection Procedure - Harmonized Requirements**

**Die Anforderungen wurden erfüllt. / The requirements have been fulfilled.**

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

**2011-10-06**  
Produktkategorie: Siehe Anhang 1 /  
*Product Category: See Appendix 1*

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

Inspektionsstelle / Inspection Body

Thomas Bilz

Datum / Date: 2012-01-20

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Dieses Zertifikat ist nicht übertragbar auf andere Fertigungsstätten und berechtigt nicht zum Führen eines VDE-Zeichens. /  
*This certificate is not transferable to other places of manufacture and does not authorize to use any VDE Mark.*

Die VDE Prüf- und Zertifizierungsinstitut GmbH ist durch die Deutsche Akkreditierungsstelle DAkkS akkreditiert. /  
*The VDE Testing and Certification Institute is accredited by the German Accreditation Body DAkkS.*

**VDE**  
INSTITUT

| VDE ID. No. License Holder | Name                | Address                                                         |
|----------------------------|---------------------|-----------------------------------------------------------------|
| 924214                     | LG Electronics Inc. | #191-1, Gongdan-Dong,<br>Gumi-City, Gyongbuk,<br>730-030, Korea |

| Product     | PV-Module                                                                  |
|-------------|----------------------------------------------------------------------------|
| License No. | Standards                                                                  |
| n/a         | n/a                                                                        |
| Type (s)    | Multi X – Series                                                           |
| PV Module   | LGXXXR1C-G2 (200-240W)<br>LGXXXR1C-G2 (215-255W)<br>LGXXXR1C-G2 (210-250W) |

| VDE Factory ID. No. | Name                | Address                                                         |
|---------------------|---------------------|-----------------------------------------------------------------|
| 30021251            | LG Electronics Inc. | #191-1, Gongdan-Dong,<br>Gumi-City, Gyongbuk,<br>730-030, Korea |

| Manufacturing plant | Name                | Address                                                         |
|---------------------|---------------------|-----------------------------------------------------------------|
| (Cell)              | LG Electronics Inc. | #191-1, Gongdan-Dong,<br>Gumi-City, Gyongbuk,<br>730-030, Korea |

**Maximum production capacity for the above named product types of PV modules:  
60MW per year**

| VDE Factory ID. No. | Name                                  | Address                                  |
|---------------------|---------------------------------------|------------------------------------------|
| 30021474            | REC Wafer Norway AS<br>(Heroya plant) | Fjordgata 48<br>3908 Porsgrunn<br>Norway |

| Manufacturing plant | Name                                  | Address                                  |
|---------------------|---------------------------------------|------------------------------------------|
| (Wafer)             | REC Wafer Norway AS<br>(Heroya plant) | Fjordgata 48<br>3908 Porsgrunn<br>Norway |

## Explanation of PV Modul Type Designation

(Detailed explanation of PV-Modul type at CIG023 report reference no. 30021251 2011-10-06)

LGxxxR1C-G2

L denotes License holder name is LG Electronics Inc.  
G denotes Product characteristic is General  
xxx denotes Product capacity (Pmax, Wp)  
R denotes Cell type is REC wafer and RIE-cell  
1 denotes Cell arrangement will be 6 x 10  
C denotes Color of Frame & backsheet is Black frame and White backsheet  
G denotes the module had been approved by VDE or TUV and UL  
2 denotes Version of model is 2

## Explanation of PV-Modul Serial no.

(Detailed traceability information of PV-Modul at CIG023 report reference no. 30021251 2011-10-06)

K2111A050550

K denotes Production site is Korea  
2 denotes Module line  
1 denotes Cell arrangement is 6x10  
11 denotes detailed manufacturing site (191-1)  
A denotes production month  
05 denotes production date  
0550 denotes serial no

## Explanation of Wafer Serial no.

(Detailed traceability information of incoming wafer at CIG023 report reference no. 30021474 2012-01-19)

H03-W2-10Exxxxxx

H denotes production site is Heroya plant  
03 plant name reference  
03 = REC Wafer Norway Heroya plant A1 = WNHA1  
04 = REC Wafer Norway Heroya plant A2 = WNHA2  
W2 denotes Waferline no. 2  
10 denotes the production year  
Exxxxxx denotes the box number xxxxxx

**Wafer Shipping Volume to VDE Factory ID No. 30021251 in 2011: 30MW**

**Manufacturing plant (REC Wafer Norway AS Heroya plant) is the only supplier for the above named product types of PV modules.**

**Multi X modules are produced using only REC wafers manufactured in Norway.**

|                                 | Yes                                 | No                       |
|---------------------------------|-------------------------------------|--------------------------|
| <b>Process steps in factory</b> |                                     |                          |
| Development                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Assembly                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Electrical tests                | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**VDE Testing and Certification Institute**  
*Factory Inspection and Conformity Control*

*Inspection Body*

Thomas Bilz  
Date: 2012-01-20