LG Electronics, Inc. (Korea Exchange: 06657.KS) is one of the globally leading companies and technology innovator for electronics, information and communication products. LG Electronics currently employs more than 91,000 people worldwide in 117 companies. In fiscal year 2011 a turnover of 48.97 billion USD has been achieved.

LG is one of the world’s largest manufacturers of mobile phones, flat screen TVs, air conditioners, washing machines and refrigerators. As a future-oriented company, LG relies on the technology of renewable energies and is expanding it. The entire range of high quality solar products are being manufactured in LG’s leading production site Korea.

The LG Mark of Excellence
Customers rest assured of cutting-edge technology and reliability when they see the LG logo on every module. The LG logo reflects the high standards that have guided LG for more than 50 years.

100% EL Test Completed
All LG modules are tested at various stages of the production by Electroluminescence inspection. The EL inspection detects cracks unseen by the naked eye.

Light and Robust
With a weight of just 16.8 kg, LG modules are proven to demonstrate outstanding durability against external pressure up to 5400 Pa.

Reliable Warranties
LG stands by its products with the strength of a global corporation and sterling warranty policies. Together with a 10 year product warranty a 25 year linear performance warranty is offered.

Positive Power Tolerance
LG provides rigorous quality testing to solar modules to assure customers of the stated power outputs of all modules, with a positive nominal tolerance starting at 0%.

Convenient Installation
LG modules are carefully designed to help installers benefit from quick and easy installations throughout carrying, grounding, and connecting stages of modules.
### Mechanical Properties

#### Cells
- **6 x 10**

#### Cell vendor
- LG

#### Cell type
- Monocrystalline

#### Cell dimensions
- **156 x 156 mm**

#### Cell busbars
- 3

#### Front cover
- Glass

#### Dimensions (L x W x H)
- **1640 x 1000 x 35 (mm)**

#### Static load
- **5400 Pa (snow)**, **2400 Pa (wind)**

#### Weight
- **16.8 ± 0.5 kg**

#### Connector type
- MC4, IP 67

#### Junction box
- IP 67 with 3 bypass diodes

#### Length of cables
- **2 x 1000 mm**

#### Frame
- Anodized aluminum

### Certifications and Warranty

#### Certifications
- IEC 61215, IEC 61730-1/-2,
  - IEC 61701, UL 1703, OHSAS 18001,
  - ISO 9001, ISO 14001,
  - DLG-FokusTest Ammonia Resistance

#### Product warranty
- 10 years

#### Output warranty of Pmax
- 25 years linear warranty**3**

**1** 1st year: 97%, 2nd - 25th year: -0.7%/a, 25th year: 80.2%

### Temperature Coefficients

#### NOCT
- **44.9 ± 2 °C**

#### Pmpp
- **-0.459 %/K**

#### Voc
- **-0.343 %/K**

#### Isc
- **0.054 %/K**

### Characteristic Curves

#### Current (A)
- 1000 W, 800 W, 600 W, 400 W, 200 W

#### Voltage (V)
- 0 to 40

#### Module efficiency (%)
- 16.2, 15.9, 15.6, 15.2

### Electrical Properties (STC**2**)

<table>
<thead>
<tr>
<th></th>
<th>265 W</th>
<th>260 W</th>
<th>255 W</th>
<th>250 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pmax (W)</td>
<td>265</td>
<td>260</td>
<td>255</td>
<td>250</td>
</tr>
<tr>
<td>Vmpp (V)</td>
<td>31.4</td>
<td>31.2</td>
<td>31.0</td>
<td>30.8</td>
</tr>
<tr>
<td>Impp (A)</td>
<td>8.46</td>
<td>8.35</td>
<td>8.24</td>
<td>8.13</td>
</tr>
<tr>
<td>Voc (V)</td>
<td>38.7</td>
<td>38.6</td>
<td>38.4</td>
<td>38.3</td>
</tr>
<tr>
<td>Isc (A)</td>
<td>8.92</td>
<td>8.82</td>
<td>8.72</td>
<td>8.62</td>
</tr>
<tr>
<td>Module efficiency (%)</td>
<td>16.2</td>
<td>15.9</td>
<td>15.6</td>
<td>15.2</td>
</tr>
</tbody>
</table>

#### Operating temperature (°C)
- -40 ~ +90

#### Maximum system voltage (V)
- 1000

#### Maximum series fuse rating (A)
- 15

#### Power tolerance (%)
- 0 ~ +3

### Electrical Properties (NOCT**3**)

<table>
<thead>
<tr>
<th></th>
<th>265 W</th>
<th>260 W</th>
<th>255 W</th>
<th>250 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pmax (Pmpp)</td>
<td>195</td>
<td>191</td>
<td>187</td>
<td>183</td>
</tr>
<tr>
<td>Vmpp (V)</td>
<td>28.4</td>
<td>28.2</td>
<td>28.1</td>
<td>27.9</td>
</tr>
<tr>
<td>Impp (A)</td>
<td>6.84</td>
<td>6.76</td>
<td>6.67</td>
<td>6.58</td>
</tr>
<tr>
<td>Voc (V)</td>
<td>35.8</td>
<td>35.6</td>
<td>35.5</td>
<td>35.4</td>
</tr>
<tr>
<td>Isc (A)</td>
<td>7.21</td>
<td>7.13</td>
<td>7.05</td>
<td>6.97</td>
</tr>
</tbody>
</table>

#### Efficiency reduction (from 1000 W/m² to 200 W/m²)
- < 4.5%

### Dimensions (mm)

- **1000**
- **960**
- **28.0 (Z view)**
- **5.5*4.0 (X view)**
- **Ø4.3**
- **12x Grounding holes**
- **Ø8.0 (Y view)**
- **6x Mounting holes**
- **5.5*7.5 (Y view)**
- **4x Drain holes**
- **4x Mounting holes**
- **6x Mounting holes**
- **4x Mounting holes**
- **16.8 ± 0.5 kg**
- **IP 67 with 3 bypass diodes**
- **MC4, IP 67**

### Application Class: A (according to IEC 61730), Safety Class: II

The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

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**2** STC (Standard Test Conditions): Irradiance 1000 W/m², module temperature 25 °C, AM 1.5

**3** NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, and speed 1 m/s