STELLAR PERFORMER, GREAT LOOKER

LG NeON® 2 Black

UP TO 330 WATTS
TOTAELY BLACK
LG CELLO DESIGN

25 YEARS
LG Product and Performance Guarantee

LG Life's Good
LG NeON® 2 BLACK – ELEGANT DESIGN. CLEAN ENERGY.

As its name suggests, the monocrystalline LG NeON® 2 Black solar module is completely black. Its discreet design means it can easily be integrated into any house roof. And the new Cello technology delivers a reliable output up to 330 Wp.

LOCAL GUARANTOR, GLOBAL SECURITY

LG Solar is part of LG Electronics, a global and financially strong company, with over 50 years of experience.

Good to know: LG Electronics is the warrantor for your solar modules. LG Electronics has been present in Europe with many local subsidiaries for decades.

EXCELLENT QUALITY, INDEPENDENTLY TESTED

You can rely on LG. We test our products with double the intensity specified in the IEC standard. This quality is valued by installers across Europe, which is why they have awarded our LG solar modules the “Top Brand PV” stamp of quality for the highest recommendation rates for the fourth time in a row.

UNDERSTATE ELEGANCE FOR BEAUTIFUL ROOFS

The LG NeON® 2 Black solar module featuring a black anodized frame and black back sheet has been designed with improved aesthetics. Thanks to the use of thinner wires, it now looks totally black even from a distance. Its elegant design will fit in easily with the appearance of your home and may increase its value.

POWERFUL DESIGN, GUARANTEED ROBUST (LG STANDARD)*

With reinforced frame design, LG NeON® 2 Black can endure a front load up to 6,000 Pa (represents snow height of normal snow of more than 1.8 meters) and a rear load up to 5,400 Pa (represents wind speed of up to 93 m/s, compare max. wind speed of Hurricane Katrina 2005 of max. 75 m/s).

Extended Product Warranty

25 yrs

Linear Warranty: 25 yrs**

* Module fully complies with the new IEC 61215-2: 2016 test procedures which confirmed 5,400 Pa front and 4,000 Pa rear side load. LG made internal tests to confirm 6,000 Pa front and 5,400 Pa rear side load also with new IEC 61215-2: 2016 norms. Further tests are on-going. Unless these tests turn out differently, LG confirms 6,000 Pa / 5,400 Pa.

** 1) 1st year min. 98%; 2) After 2nd year max. 0.35% p annual degradation. 3) Min. 89.6% for 25 years.

The Warrantor’s 2017 Global Sales in Billions of US Dollars

LG Electronics $55.4bn

All below combined $23.7bn

Jinko Solar* $3.9bn

Trina Solar* $3.5bn

Canadian Solar* $3.4bn

First Solar* $2.9bn

JA Solar* $2.8bn

Hanwha Q Cells* $2.2bn

Sunpower* $1.9bn

Yingli* $1.2bn

Suntech* $0.9bn

REC Solar* $0.6bn

Winica/Win Win Precision Tech* $0.15bn

*2017 Annual Financial Statements.

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LG NeON® 2Black

LG330N1K-V5 | LG325N1K-V5
LG320N1K-V5

60 Cells

LG’s new module, NeON® 2 Black, adopts CELLO technology. CELLO technology replaces 3 busbars with 12 thin wires to enhance power output and reliability. NeON® 2 Black demonstrates LG’s efforts to increase customer value beyond efficiency. It features enhanced warranty, durability, performance under real environmental conditions, and aesthetic design suitable for roofs.

KEY FEATURES

Enhanced Performance Warranty
LG NeON® 2 Black has an enhanced performance warranty. The annual degradation has fallen from -0.5%/year to -0.35%/year.

Better Performance on a Sunny Day
LG NeON® 2 Black now performs better on sunny days thanks to its improved temperature coefficient.

Aesthetic Roof
LG NeON® 2 Black has been designed with aesthetics in mind; thinner wires that appear all black at a distance. The product can increase the value of a property with its modern design.

Double-Sided Cell Structure
The rear of the cell used in LG NeON® 2 Black will contribute to generation, just like the front; the light beam reflected from the rear of the module is reabsorbed to generate a great amount of additional power.

About LG Electronics
LG Electronics is a global big player, committed to expanding its operations with the solar market. The company first embarked on a solar energy source research program in 1985, supported by LG Group’s vast experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first MonoX® series to the market, which is now available in 32 countries. The LG NeON® (previous MonoX® NeON), NeON®2, NeON®2 Bifacial won the “Intersolar AWARD” in 2013, 2015 and 2016, which demonstrates LG Solar’s lead, innovation and commitment to the industry.
### Electrical Properties (STC*)

<table>
<thead>
<tr>
<th>Model</th>
<th>LG330N1K-V5</th>
<th>LG325N1K-V5</th>
<th>LG320N1K-V5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power Pmax [W]</td>
<td>330</td>
<td>325</td>
<td>320</td>
</tr>
<tr>
<td>MPP Voltage Vmpp [V]</td>
<td>34.1</td>
<td>33.7</td>
<td>33.3</td>
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<tr>
<td>Open Circuit Voltage Voc [V]</td>
<td>41.0</td>
<td>40.9</td>
<td>40.8</td>
</tr>
<tr>
<td>Short Current Current Isc [A]</td>
<td>10.27</td>
<td>10.23</td>
<td>10.19</td>
</tr>
<tr>
<td>Module Efficiency [%]</td>
<td>19.3</td>
<td>19.0</td>
<td>18.7</td>
</tr>
<tr>
<td>Operating Temperature [°C]</td>
<td>-40 ~ +90</td>
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<td></td>
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<tr>
<td>Maximum System Voltage [V]</td>
<td>1,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Series Fuse Rating [A]</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Power Tolerance [%]</td>
<td>0 ~ +3</td>
<td></td>
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</tr>
</tbody>
</table>

### Electrical Properties (NMOT)

<table>
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<tbody>
<tr>
<td>Maximum Power Pmax [W]</td>
<td>247</td>
<td>243</td>
<td>239</td>
</tr>
<tr>
<td>MPP Voltage Vmpp [V]</td>
<td>31.9</td>
<td>31.5</td>
<td>31.2</td>
</tr>
<tr>
<td>MPP Current Imp [A]</td>
<td>7.73</td>
<td>7.69</td>
<td>7.67</td>
</tr>
<tr>
<td>Open Circuit Voltage Voc [V]</td>
<td>38.5</td>
<td>38.4</td>
<td>38.3</td>
</tr>
<tr>
<td>Short Current Current Isc [A]</td>
<td>8.26</td>
<td>8.23</td>
<td>8.19</td>
</tr>
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</table>

### Mechanical Properties

- **Cells**: 6 x 10
- **Cell Vendor**: LG
- **Cell Type**: Monocrystalline/N-type
- **Cell Dimensions**: 161.7 x 161.75 mm
- **Weight**: 17.1 kg
- **Mechanical Test Load**: 6,000Pa (Front), 5,400Pa (Rear)
- **Junction Box**: IP68 with 3 Bypass Diodes
- **Length of Cables**: 2 x 1,000 mm
- **Front cover**: Tempered Glass with AR Coating
- **Frame**: Anodized Aluminum

### Certifications and Warranty

- **Certifications**:
  - IEC 61215-1/-1-1/-2:2016
  - IEC 61730-1/2:2016
  - ISO 9001, ISO 14001, ISO 50001
- **Salt Mist Corrosion Test**:
  - IEC 62701:2012 Severity 6
- **Ammonia Corrosion Test**:
  - IEC 62716:2013
- **Product Warranty**: 25 years
- **Output Warranty of Pmax** (Measurement Tolerance ±3%): 25 years linear warranty

### Temperature Coefficients

- **NOCT**: 42 ± 3 °C
- **Pmpp**: -0.36 %/°C
- **Voc**: -0.27 %/°C
- **Isc**: 0.03 %/°C

### Characteristic Curves

- **Voltage (V)** vs **Current (A)**
- **Isc, Voc, Pmax (°C)** vs **Temperature (°C)**

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* Manufacturer Declaration according to IEC 61215: 2005 (Preliminary)
* Mechanical Test Loads 5400 Pa / 4000 Pa based on IEC61215-2 : 2016 (Test Load = Design Load x Safety Factor (1.5))

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**Characteristics Curves**

- **Voltage (V)** vs **Current (A)**
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**Dimensions (mm)**

- **LONG FRAME**
  - Size of short side: 1,016 mm
  - Size of long side: 1,686 mm
  - Distance between mounting holes: 8,5 x 12
  - Ø 4.3
  - 8 x Grounding holes
  - 8 x Mounting holes
  - Distance between mounting holes: 6,000Pa (Front), 5,400Pa (Rear)
- **SHORT FRAME**
  - Size of short side: 976 mm
  - Size of long side: 1,286 mm
  - Ø 4.3
  - 8 x Grounding holes
  - 8 x Mounting holes
  - Distance between mounting holes: 5,400Pa (Rear), 4,000Pa (Front)

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