LG NeON™ 2 Bifacial

60 cell

LG NeON™ 2 Bifacial is designed to utilize both sides of PV module for absorbing more light and generating more energy. It also adopts Cello technology which replaces 3 busbars with 12 thin wires to enhance power output and reliability. It is possible to produce an abundance of output energy with LG NeON™ 2 Bifacial.

Key Features

- **Enhanced Performance Warranty**: LG NeON™ 2 Bifacial has an enhanced performance warranty. The annual degradation has fallen to 0.6%/yr from 0.7%/yr of the previous LG NeON™ module.

- **Better Performance on a Sunny Day**: LG NeON™ 2 Bifacial now performs better on sunny days thanks to its improved temperature efficiency.

- **High Power Output**: LG NeON™ 2 Bifacial has been designed using LG’s new Cello technology which is able to achieve high rear efficiency cell over 92.5% based on front efficiency.

- **Bifacial Energy Yield**: It is possible to produce 25% more energy and output energy can be increased more under optimized surrounding conditions.

- **More Generation on a Cloudy Day**: LG NeON™ 2 Bifacial gives good performance even on a cloudy day due to its low energy reduction in weak sunlight.

- **Near Zero LID (Light Induced Degradation)**: The n-type cells used in LG NeON™ 2 Bifacial have almost no boron, which may cause the initial efficiency to drop, leading to less LID.

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 NeON™ (previous, MonoX® NeON) and The NeON™2 won the “Intersolar AWARD” in 2013 and 2015, which demonstrates LG Solar’s lead, innovation and commitment to the industry.
Electrical Properties (STC²)

<table>
<thead>
<tr>
<th>Module</th>
<th>LG300N1T-G4</th>
<th>10%</th>
<th>20%</th>
<th>25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power (Pmax) [W]</td>
<td>300</td>
<td>330</td>
<td>360</td>
<td>375</td>
</tr>
<tr>
<td>MPP Voltage (Vmp) [V]</td>
<td>32.9</td>
<td>32.9</td>
<td>32.9</td>
<td>33.0</td>
</tr>
<tr>
<td>MPP Current (Impp) [A]</td>
<td>9.15</td>
<td>10.07</td>
<td>10.98</td>
<td>11.44</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc) [V]</td>
<td>40.1</td>
<td>40.1</td>
<td>40.2</td>
<td>40.3</td>
</tr>
<tr>
<td>Short Circuit Current (Isc) [A]</td>
<td>9.65</td>
<td>10.68</td>
<td>11.65</td>
<td>12.14</td>
</tr>
<tr>
<td>Module Efficiency [%]</td>
<td>18.3</td>
<td>20.1</td>
<td>22.0</td>
<td>22.9</td>
</tr>
</tbody>
</table>

Operating Temperature [°C] -40 ~ +90

Maximum System Voltage [V] 1000

Maximum Series Fuse Rating [A] 20

Power Tolerance [%] 0 ~ +3

¹ STC (Standard Test Condition): Irradiance 1000 W/m², Module Temperature 25 °C, AM 1.5
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

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Temperature Characteristics

NOCT [°C] 45 ± 3
Pmax [%/°C] -0.38
Voc [%/°C] -0.28
Isc [%/°C] 0.03

Characteristics and Warranty

Certifications
- IEC 61215, IEC 61730-1/-2
- IEC 62716 (Ammonia corrosion test)
- IEC 61701 (Salt mist corrosion test)
- ISO 9001

Fire Rating Class C
Product Warranty 12 Years
Output Warranty of Pmax Linear Warranty

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Mechanical Properties

Cells 6 x 10
Cell Vendor LG
Cell Type Monocrystalline / N-type
Cell Dimensions 156.75 x 156.75 mm / 6 inches
x of Busbar 12 (Multi Wire Busbar)
Dimensions (L x W x H) 1640 x 1000 x 40 mm
Front Load 6000 Pa
Rear Load 5400 Pa
Weight 17.0 ± 0.5 kg
Connector Type MC4
Junction Box IP67 with 3 Bypass Diodes
Length of Cables 1000 mm x 2ea
Glass High Transmission Tempered Glass
Frame Anodized Aluminum

Cable Length (Distance between mounting holes) 1000 mm x 2ea

Dimensions (mm)

- (Z view) Ø8.0
- (X view) 5.5 x 4.0
- (Y view) 7.5 x 4.0

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Length of Cables 1000 mm x 2ea

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