LG NeON® 2 72cell

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

Enhanced Performance Warranty
LG NeON® 2 has an enhanced performance warranty. The annual degradation has fallen from -0.6%/yr to -0.5%/yr. Even after 25 years, the cell guarantees 1.2% more output than the previous LG NeON® 2 modules.

High Power Output
Compared with previous models, the LG NeON® 2 has been designed to significantly enhance its output efficiency, thereby making it efficient even in limited space.

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

Outstanding Durability
With its newly reinforced frame design, LG has extended the warranty of the LG NeON® 2 for an additional 2 years. Additionally, LG NeON® 2 can endure a front load up to 5400 Pa, and a rear load up to 4300 Pa.

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

Double-Sided Cell Structure
The rear of the cell used in LG NeON® 2 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 player who has been committed to expanding its operations with the solar market. The company first embarked on a solar energy source research programs 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 Mono X® series to the market, which is now available in 32 countries. The LG NeON® (previously known as Mono X® NeON) and the LG NeON® 2 won the “Intersolar Award” in 2013 and 2015, which demonstrates LG Solar’s lead, innovations and commitment to the industry.
# Mechanical Properties

<table>
<thead>
<tr>
<th>Cells</th>
<th>6 x 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Vendor</td>
<td>LG</td>
</tr>
<tr>
<td>Cell Type</td>
<td>Monocrystalline / N-type</td>
</tr>
<tr>
<td>Cell Dimensions</td>
<td>161.7 x 161.7 mm / 6 inches</td>
</tr>
<tr>
<td># of Busbar</td>
<td>12 (Multi Wire Busbar)</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>2024 x 1024 x 40 mm / 79.69 x 40.31 x 1.57 inch</td>
</tr>
<tr>
<td>Front Load</td>
<td>5400Pa</td>
</tr>
<tr>
<td>Rear Load</td>
<td>4300Pa</td>
</tr>
<tr>
<td>Weight</td>
<td>21.7 kg</td>
</tr>
<tr>
<td>Connector Type</td>
<td>MC4</td>
</tr>
<tr>
<td>Junction Box</td>
<td>IP68 with 3 Bypass Diodes</td>
</tr>
<tr>
<td>Cables</td>
<td>1200 mm x 2 ea</td>
</tr>
<tr>
<td>Glass</td>
<td>High Transmission Tempered Glass</td>
</tr>
<tr>
<td>Frame</td>
<td>Anodized Aluminium</td>
</tr>
</tbody>
</table>

# Electrical Properties (STC *)

- **Module**
  - Maximum Power (Pmax): 400W
  - MPP Voltage (Vmpp): 40.6V
  - MPP Current (Impp): 9.86A
  - Open Circuit Voltage (Voc): 49.3V
  - Short Circuit Current (Isc): 10.47A
  - Module Efficiency: 19.3%
  - Operating Temperature: -40 ~ +90
  - Maximum System Voltage: 1500 (UL)
  - Maximum Series Fuse Rating: 20A
  - Power Tolerance (%): 0 ~ +3

  * STC (Standard Test Condition): Irradiance 1,000 W/m², Ambient Temperature 25 °C, AM 1.5
  * The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.
  * The Typical change in module efficiency at 200W/m² in relation to 1000W/m² is -2.0%.

**Certifications and Warranty**

- **Certifications**
  - IEC 61215, IEC 61730-1/-2
  - UL1703
  - IEC 61701 (Salt mist corrosion test)
  - IEC 62716 (Ammonia corrosion test)
  - ISO 9001
- **Module Fire Performance (USA)**
  - Type 1
- **Fire Rating (CANADA)**
  - Class C (ULC / ORD C1703)
- **Product Warranty**
  - 15 years
- **Output Warranty of Pmax**
  - Linear warranty**

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### Temperature Characteristics

- **NOCT**
  - 45 ± 3 °C
- **Pmpp**
  - -0.36%/°C
- **Voc**
  - -0.26%/°C
- **Isc**
  - 0.02%/°C
- **Characteristics Curves**

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

### Dimensions (mm/in)

- **Glass**
  - High Transmission Tempered Glass
- **Frame**
  - Anodized Aluminium

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Innovation for a Better Life