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 values beyond efficiency. It features enhanced warranty, durability, performance under real environment, and aesthetic design suitable for roofs.

Enhanced Performance Warranty
LG NeON™ 2 Black has an enhanced performance warranty. The annual degradation has fallen from -0.6%/yr to -0.55%/yr. Even after 25 years, the cell guarantees 1.2% more output than the previous LG NeON™ 2 Black modules.

Aesthetic Roof
LG NeON™ 2 Black 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.

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

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

Outstanding Durability
With its newly reinforced frame design, LG has extended the warranty of the LG NeON™ 2 Black for an additional 2 years. Additionally, LG NeON™ 2 Black can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.

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 player who has been committed to expanding its capacity, based on solar energy business as its future growth engine. We embarked on a solar energy source research program in 1985, supported by LG Group’s rich experience in semiconductor, LCD, chemistry, and materials industry. We successfully released the first Mono X® series to the market in 2010, which were exported to 32 countries in the following 2 years, thereafter. In 2013, LG NeON™ (previously known as Mono X® NeON) won “Intersolar Award”, which proved LG is the leader of innovation in the industry.
Mechanical Properties

- Cells: 6 x 10
- Cell Vendor: LG
- Cell Type: Monocrystalline / N-type
- Cell Dimensions: 161.7 x 161.7 mm / 6 inches
- Busbar: 12 (Multi Wire Busbar)
- Dimensions (L x W x H): 1686 x 1016 x 40 mm
- Front Load: 6000Pa
- Rear Load: 5400Pa
- Weight: 18 kg
- Connector Type: MC4
- Junction Box: IP68 with 3 Bypass Diodes
- Cables: 1000 mm x 2 ea
- Glass: High Transmission Tempered Glass
- Frame: Anodized Aluminium

Certifications and Warranty

- Certifications: IEC 61215, IEC 61730-1/-2, UL 1703, EC 61701 (Salt mist corrosion test), EC 62716 (Ammonia corrosion test), ISO 9001
- Module Fire Performance (USA): Type 2
- Fire Rating (CANADA): Class C
- Product Warranty: 12 years
- Output Warranty of Pmax: Linear warranty**

Temperature Characteristics

- NOCT: 45 ± 3 °C
- Pmpp: -0.37%/°C
- Voc: -0.27%/°C
- Isc: 0.03 %/°C

Characteristic Curves

- Voltage (V)
- Current (A)
- Isc, Voc, Pmax (%)

Electrical Properties (STC *)

- Module: LG320N1K-A5
- Maximum Power (Pmax): 320
- MPP Voltage (Vmpp): 33.3
- MPP Current (Impp): 9.62
- Open Circuit Voltage (Voc): 40.8
- Short Circuit Current (Isc): 10.19
- Module Efficiency: 18.7
- Operating Temperature: -40 ~ +90
- Maximum System Voltage: 1,000
- Maximum Series Fuse Rating: 20
- 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 200 W/m² in relation to 1000 W/m² is -2.0%

Electrical Properties (NOCT*)

- Module: LG320N1K-A5
- Maximum Power (Pmax): 236
- MPP Voltage (Vmpp): 30.8
- MPP Current (Impp): 7.67
- Open Circuit Voltage (Voc): 38.0
- Short Circuit Current (Isc): 8.20

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

Certifications

- ISO 9001

Dimensions (mm/in)

- Mounting Holes
- Grounding Holes
- Drain Holes
- (Size of Long Side)
- (Size of Short Side)
- (Distance between Mounting Holes)
- (Distance between Mounting Holes)
- (Size of Long Side)
- (Distance between Mounting Holes)
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