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 has an enhanced performance warranty. The annual degradation has fallen from -0.7%/yr to -0.6%/yr. Even after 25 years, the cell guarantees 2.4% more output than the previous LG NeON™ 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 6000 Pa, and a rear load up to 5400 Pa.

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

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 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 156.75 x 156.75 mm / 6 inches
× of Busbar 12 (Multi Wire Busbar)
Dimensions (L x W x H) 1640 x 1000 x 40 mm
64.57 x 39.37 x 1.57 inch
Front Load 6000 Pa / 125 psf
Rear Load 5400 Pa / 113 psf
Weight 170 ± 0.5 kg / 37.48 ± 1.1 lbs
Connector Type MC4, MC4 Compatible, IP67
Junction Box IP67 with 3 Bypass Diodes
Length of Cables 2 x 1000 mm / 2 x 39.37 inch
Glass High Transmission Tempered Glass
Frame Anodized Aluminum

Certifications and Warranty

Certifications
- IEC 61215, IEC 61730-1/-2
- IEC 62716 (Ammonia Test)
- IEC 61701 (Salt Mist Corrosion Test)
- ISO 9001
- UL 1703

Module Fire Performance (USA) Type 2 (UL 1703)
Fire Rating (for CANADA) Class C (ULC/ORD C1703)
Product Warranty 12 years
Output Warranty of Pmax Linear warranty*

* 1) 1st year 98%, 2) After 2nd year 0.6%/yr annual degradation, 3) 83.6% for 25 years

Temperature Characteristics

NOCT 46 ± 3°C
Pmpp -0.38 %/°C
Voc -0.28 %/°C
Isc 0.03 %/°C

Characteristic Curves

Electrical Properties (STC *)

Module Type 315 W
MPP Voltage (Vmp) 33.2
MPP Current (Imp) 9.50
Open Circuit Voltage (Voc) 40.6
Short Circuit Current (Isc) 10.02
Module Efficiency (%) 19.2
Operating Temperature (°C) -40 ~ 90
Maximum System Voltage (V) 1000
Maximum Series Fuse Rating (A) 20
Power Tolerance (%) 0 ~ ±3

Electrical Properties (NOCT*)

Module Type 315 W
Maximum Power (Pmax) 230
MPP Voltage (Vmp) 30.4
MPP Current (Imp) 7.58
Open Circuit Voltage (Voc) 37.6
Short Circuit Current (Isc) 8.08

Dimensions (mm/in)

- Front Load: 1640 x 1000 x 40 mm / 64.57 x 39.37 x 1.57 inch
- Rear Load: 1640 x 1000 x 40 mm / 64.57 x 39.37 x 1.57 inch
- Weight: 170 ± 0.5 kg / 37.48 ± 1.1 lbs

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

* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², Module Temperature 25 °C, AM 1.5

* The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -2.0%.

North America Solar Business Team
LG Electronics U.S.A. Inc
1000 Sylvan Ave, Englewood Cliffs, NJ 07632
Contact: lg.solar@lge.com
www.lgsolarusa.com

Product specifications are subject to change without notice.
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