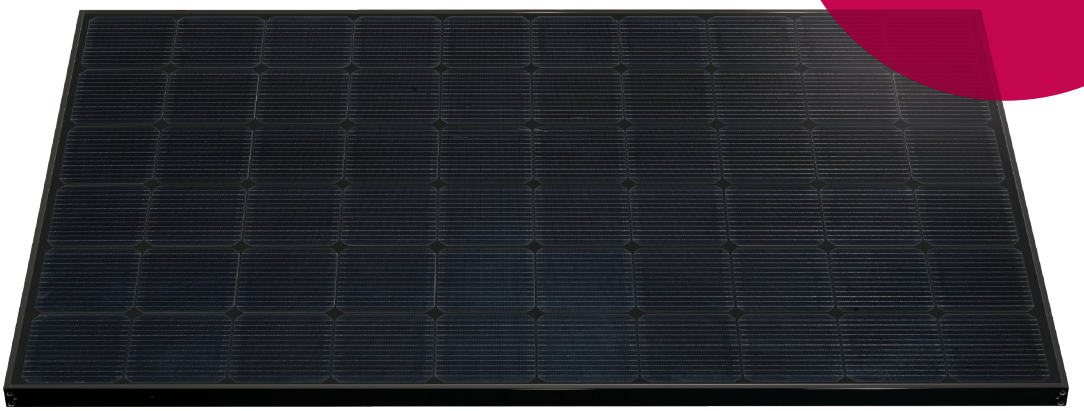
LG
Life's Good

Innovation for a Better Life



LG NeON® 2 Black

LG315N1K-A5

60 cell

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.

APPROVED PRODUCT
KM 564573 BS EN 61215
Photovoltaic Modules

Enhanced Performance Warranty

LG NeON® 2 Black 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 2.4% more output than the previous LG NeON® 2 modules.

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.

Roof Aesthetics

LG NeON® 2 Black has been designed with aesthetics in mind, using thinner wires that appear all black at a distance.

Outstanding Durability

With its newly reinforced frame design, LG has extended the warranty of the LG NeON® 2 Black for an additional 3 years. Additionally, LG NeON® 2 Black can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.

Improved Performance on Sunny Days

LG NeON® 2 Black now performs better on sunny days, thanks to its improved temperature coefficient.

Double-Sided Cell Structure

The rear of the cell used in the LG NeON® 2 Black contributes to generation, just like the front; the light beam reflected from the rear of the module is reabsorbed to generate 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.

LG NeON® 2 Black

LG315N1K-A5

Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
# of Busbar	12 (Multi Wire Busbar)
Dimensions (L x W x H)	1686 x 1016 x 40 mm 66.38 x 40 x 1.57 inch
Front Load	6000 Pa
Rear Load	5400 Pa
Weight	18 kg
Connector Type	MC4
Junction Box	IP68 with 3 Bypass Diodes
Length of Cables	1000 mm x 2 ea
Glass	Tempered Glass with AR Coating
Frame	Anodized Aluminum

Certifications and Warranty

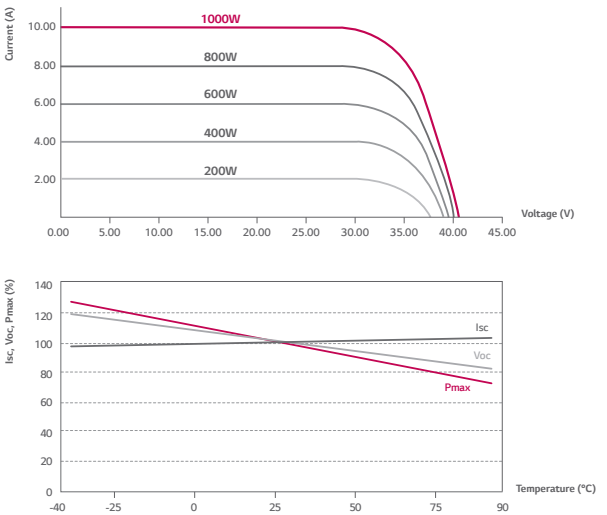
Certifications	IEC 61215, IEC 61730-1/-2
	UL 1703
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
	ISO 9001
Module Fire Performance (USA)	Type 2
Fire Rating (for CANADA)	Class C
Product Warranty	25 years
Output Warranty of Pmax	Linear warranty**

** 1) 1st year : 98%, 2) After 1st year : 0.5% annual degradation, 3) 25 years : 86 %

Temperature Characteristics

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

Characteristic Curves



Electrical Properties (STC *)

Module	LG315N1K-A5
Maximum Power (Pmax)	315
MPP Voltage (Vmpp)	32.9
MPP Current (Impp)	9.58
Open Circuit Voltage (Voc)	40.7
Short Circuit Current (Isc)	10.15
Module Efficiency	18.4
Operating Temperature	-40 ~ +90
Maximum System Voltage	1,000
Maximum Series Fuse Rating	20
Power Tolerance (%)	0 ~ +3

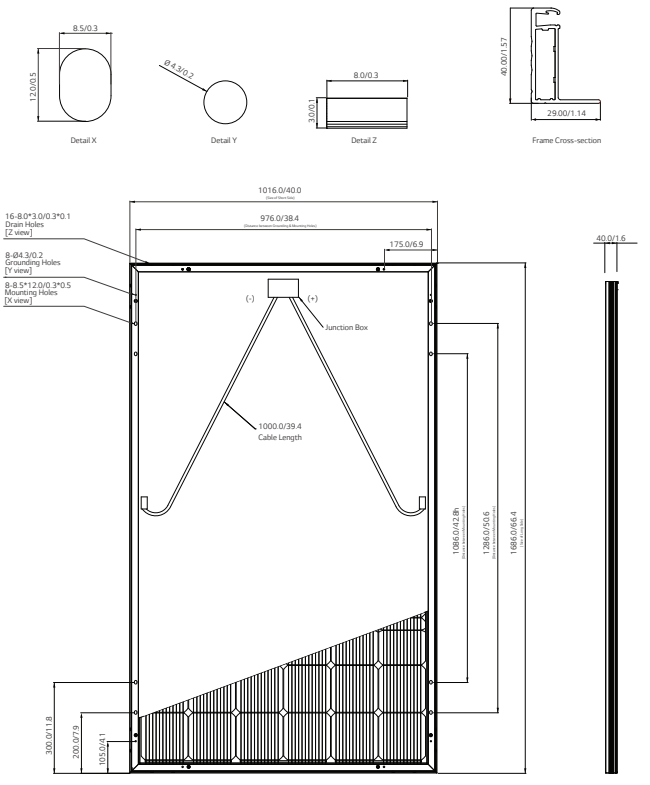
* STC (Standard Test Condition): Irradiance 1,000 W/m², Ambient Temperature 25 °C, AM 1.5
* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.
*The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -2.0%.

Electrical Properties (NOCT*)

Module	LG315N1K-A5
Maximum Power (Pmax)	232
MPP Voltage (Vmpp)	30.4
MPP Current (Impp)	7.63
Open Circuit Voltage (Voc)	37.9
Short Circuit Current (Isc)	8.17

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

Dimensions (mm/in)



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Product specifications are subject to change without notice.
DS-N2-60-K-G-F-EN-50427

01/01/2017

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