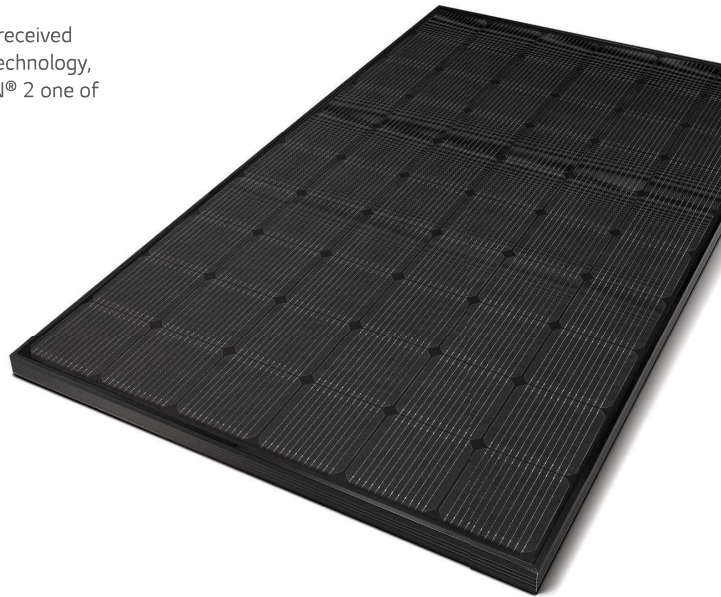


# LG NeON<sup>®</sup> 2 Black

LG325N1K-A5 | LG320N1K-A5 | LG315N1K-A5

325W | 320W | 315W

The LG NeON<sup>®</sup> 2 is LG's best-selling solar module. The NeON<sup>®</sup> 2 received the acclaimed 2015 Intersolar AWARD for featuring LG's Cello Technology, which increases power output and reliability and makes the NeON<sup>®</sup> 2 one of the most powerful and versatile modules on the market.



## Feature



### Enhanced Performance Warranty

LG NeON<sup>®</sup> 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 2.4 % more output than the previous LG NeON<sup>®</sup> 2 modules.



### High Power Output

Compared with previous models, the LG NeON<sup>®</sup> 2 Black has been designed to significantly enhance its output efficiency, thereby making it efficient even in limited space.



### Roof Aesthetics

LG NeON<sup>®</sup> 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 NeON<sup>®</sup> 2 from 15 years to 25 years, including labor. In addition, LG NeON<sup>®</sup> 2 can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.



### Improved Performance on Sunny Days

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



### Near Zero LID (Light Induced Degradation)

The n-type cells used in LG NeON<sup>®</sup> 2 have almost no boron. This leads to less LID (Light Induced Degradation) right after installation.

## 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<sup>®</sup> series to the market, which is now available in 32 countries. The NeON<sup>®</sup> (previous MonoX<sup>®</sup> NeON), NeON<sup>®</sup>2, NeON<sup>®</sup>2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG Solar's lead, innovation and commitment to the industry.



# LG NeON<sup>®</sup> 2 Black

LG325N1K-A5 | LG320N1K-A5 | 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)	1,686 x 1,016 x 40 mm 66.38 x 40 x 1.57 in
Front Load	6,000Pa / 125 psf*
Rear Load	5,400Pa / 113 psf*
Weight	18 kg / 39.68 lb
Connector Type	MC4 (MC), PV-JM601A(JMTHY)
Junction Box	IP68 with 3 Bypass Diodes
Cables	1,000 mm x 2 ea / 39.37 in x 2 ea
Glass	Tempered Glass with AR Coating
Frame	Anodized Aluminium

\* Please refer to the installation manual for the details.

## Certifications and Warranty

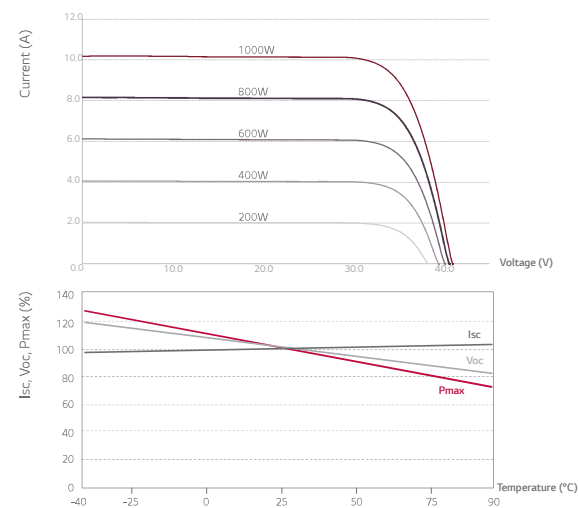
Certifications	IEC 61215, IEC 61730-1/-2
	UL 1703
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
	ISO 9001
Module Fire Performance	Type 2 (UL 1703)
Fire Rating	Class C (ULC/ORD C 1703, IEC 61730)
Product Warranty	25 Years
Output Warranty of Pmax	Linear Warranty*

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

## Temperature Characteristics

NOCT	[ °C ]	45 ± 3
Pmax	[%/°C]	-0.37
Voc	[%/°C]	-0.27
Isc	[%/°C]	0.03

## Characteristic Curves



## Electrical Properties (STC\*)

Model		LG325N1K-A5	LG320N1K-A5	LG315N1K-A5
Maximum Power (Pmax)	[W]	325	320	315
MPP Voltage (Vmpp)	[V]	33.7	33.3	32.9
MPP Current (Impp)	[A]	9.65	9.62	9.58
Open Circuit Voltage (Voc)	[V]	40.9	40.8	40.7
Short Circuit Current (Isc)	[A]	10.23	10.19	10.15
Module Efficiency	[%]	19.0	18.7	18.4
Operating Temperature	[°C]	-40 ~ +90		
Maximum System Voltage	[V]	1000 (UL / IEC)		
Maximum Series Fuse Rating	[A]	20		
Power Tolerance	[%]	0 ~ +3		

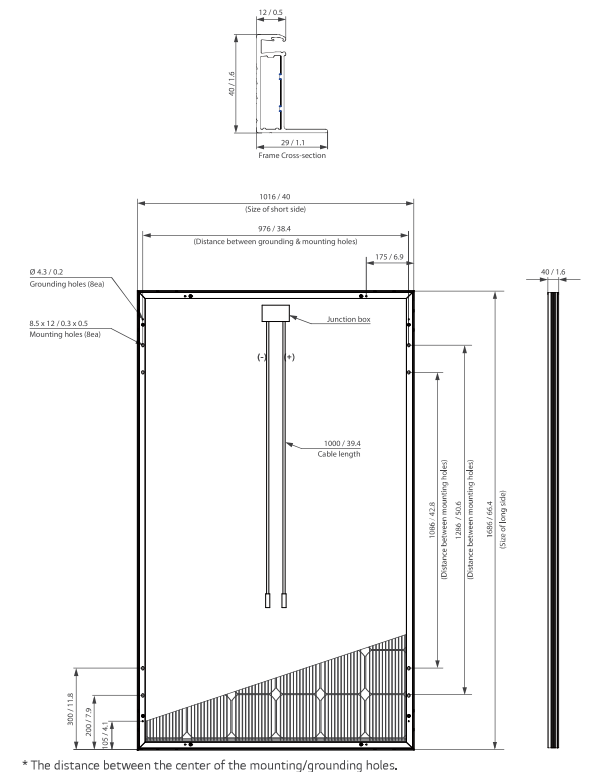
\* STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5  
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

## Electrical Properties (NOCT\*)

Model		LG325N1K-A5	LG320N1K-A5	LG315N1K-A5
Maximum Power (Pmax)	[W]	240	236	232
MPP Voltage (Vmpp)	[V]	31.2	30.8	30.4
MPP Current (Impp)	[A]	7.69	7.67	7.63
Open Circuit Voltage (Voc)	[V]	38.1	38.0	37.9
Short Circuit Current (Isc)	[A]	8.23	8.20	8.17

\* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s

## Dimensions (mm / inch)



\* The distance between the center of the mounting/grounding holes.



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Product specifications are subject to change without notice.  
DS-N5-60-K-G-F-EN-80308

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