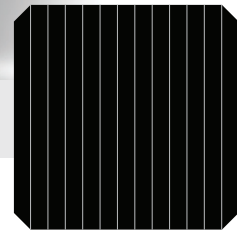


# LG NeON<sup>®</sup> 2 Black

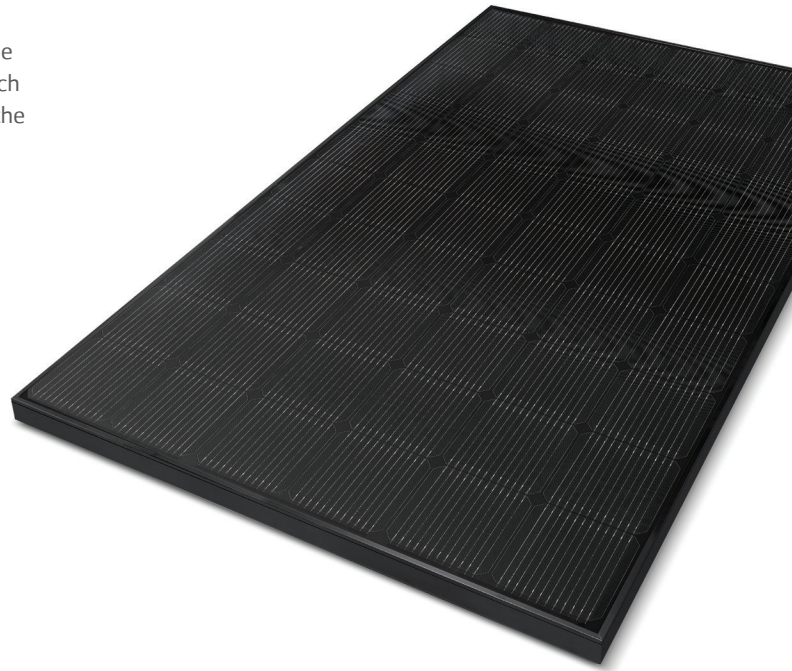
LG320N1K-A5



60

## 320W

The LG NeON<sup>®</sup> 2 is LG's best selling solar module. LG 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 LG NeON<sup>®</sup> 2 one of the most powerful and versatile modules on the market.



## Features



### Enhanced Performance Warranty

LG NeON<sup>®</sup> 2 Black has an enhanced performance warranty. After 25 years, LG NeON<sup>®</sup> 2 Black is guaranteed at least 86% of initial performance.



### Enhanced Product Warranty

LG has extended the warranty of the NeON<sup>®</sup> 2 Black to 25 years including labor, which is top level in the industry.



### 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. LG NeON<sup>®</sup> 2 Black can 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 NeON<sup>®</sup> 2 Black from 15 years to 25 years. Additionally, LG NeON<sup>®</sup> 2 Black 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<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 Black have almost no boron. This leads to less LID (Light Induced Degradation) right after installation.

When you go solar, ask for the brand you can trust: LG Solar

## About LG Electronics

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. 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's leadership and innovation in the solar industry.

# LG Solar

## LG320N1K-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)
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

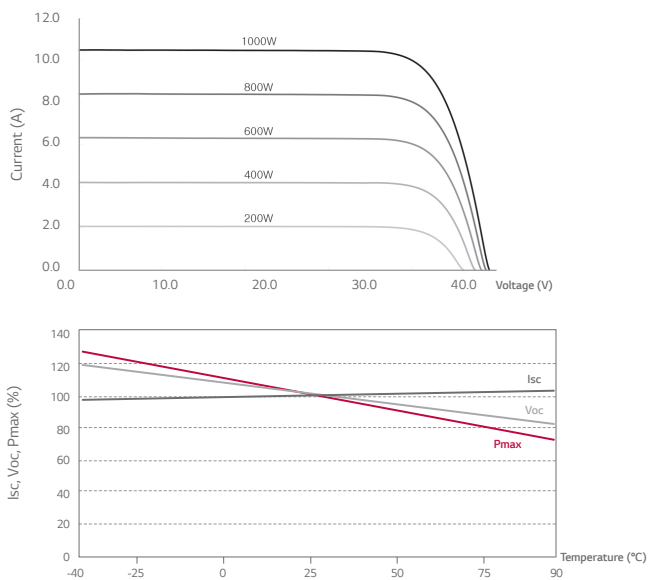
Certifications	IEC 61215, IEC 61730-1/-2
	UL 1703
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
	ISO 9001
Module Fire Performance	Type 2 (UL 1703)
Fire Rating	Class C (ULC/ORD C 1703, IEC 61730)
Product Warranty	25 Years
Output Warranty of Pmax	Linear Warranty*

\* 1) 1st year: 98% 2) After 1st year: 0.5% annual degradation, 3) 86% after 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		LG320N1K-A5
Maximum Power (Pmax)	[W]	320
MPP Voltage (Vmpp)	[V]	33.3
MPP Current (Impp)	[A]	9.62
Open Circuit Voltage (Voc)	[V]	40.8
Short Circuit Current (Isc)	[A]	10.19
Module Efficiency	[%]	18.7
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		LG320N1K-A5
Maximum Power (Pmax)	[W]	236
MPP Voltage (Vmpp)	[V]	30.8
MPP Current (Impp)	[A]	7.67
Open Circuit Voltage (Voc)	[V]	38.0
Short Circuit Current (Isc)	[A]	8.20

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

### Dimensions (mm / inch)

