

# LG NeON<sup>®</sup> 2 Black

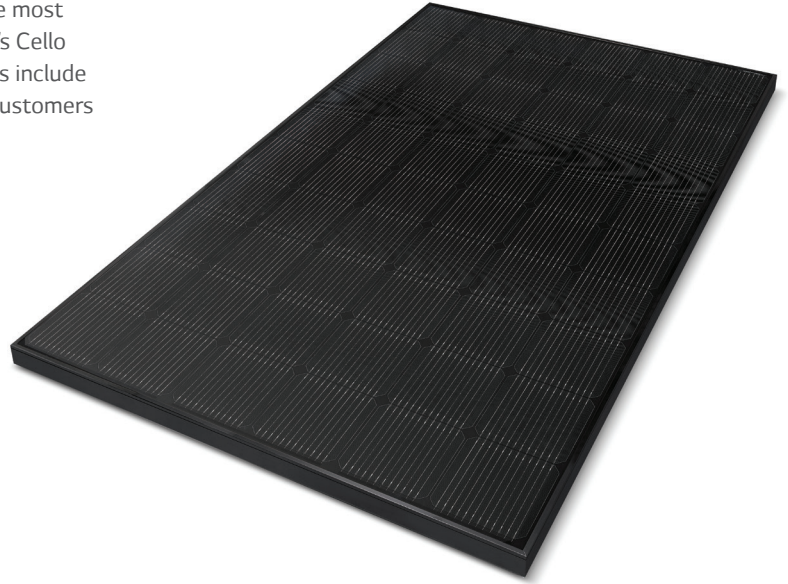
LG320N1K-V5



60

## 320W

The LG NeON<sup>®</sup> 2 is LG's best selling solar module, and is one of the most powerful and versatile modules on the market today. Featuring LG's Cello Technology, the LG NeON<sup>®</sup> 2 increases power output. New updates include an extended performance warranty from 86% to 90.08% to give customers higher performance and reliability.



## 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 90.08% of initial performance.



### 25-Year Limited Product Warranty

The NeON<sup>®</sup> 2 Black is covered by a 25-year limited product warranty. In addition, up to \$450 of labor costs will be covered in the rare case that a module needs to be repaired or replaced.



### Solid Performance on Hot Days

LG NeON<sup>®</sup> 2 Black performs well on hot days due to its low temperature coefficient.



### 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.



### Bifacial Energy Yield

LG NeON<sup>®</sup> 2 modules use a highly efficient bifacial solar cell, "NeON" applied Cello technology for better energy production than standard monofacial PV module.

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

## About LG Electronics USA, Inc.

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 NeON<sup>®</sup>2 Black

## LG320N1K-V5

### General Data

Cell Properties (Material/Type)	Monocrystalline/N-type
Cell Maker	LG
Cell Configuration	60 Cells (6 x 10)
Number of Busbars	12EA
Module Dimensions (L x W x H)	1,686mm x 1,016mm x 40 mm
Weight	17.1 kg
Glass (Material)	Tempered Glass with AR Coating
Backsheet (Color)	Black
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,000mm x 2EA
Connector (Type/Maker)	MC 4/MC

### Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2:2016, IEC 61730-1/2:2016, UL 1703 ISO 9001, ISO 14001, ISO 50001 OHSAS 18001
Salt Mist Corrosion Test	IEC 62701:2012 Severity 6
Ammonia Corrosion Test	IEC 62716:2013
Module Fire Performance	Type 2 (UL 1703)
Fire Rating	Class C (UL 790, ULC/ORD C 1703)
Solar Module Product Warranty	25 Year Limited
Solar Module Output Warranty	Linear Warranty*

\*Improved: 1st year 98%, from 2-24th year: 0.33%/year down, 90.08% at year 25

### Temperature Characteristics

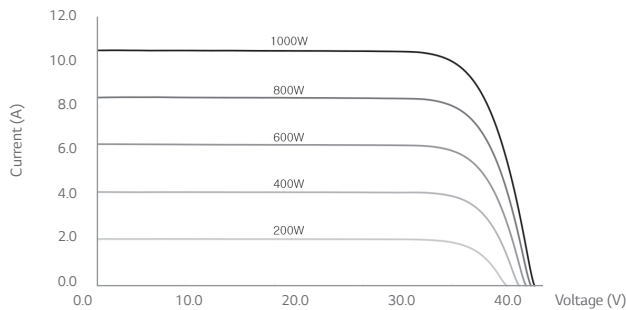
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.36
Voc	[%/°C]	-0.27
Isc	[%/°C]	0.03

\*NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1 m/s, Spectrum AM 1.5

### Electrical Properties (NMOT)

Model	LG320N1K-V5	
Maximum Power (Pmax)	[W]	239
MPP Voltage (Vmpp)	[V]	31.2
MPP Current (Impp)	[A]	7.67
Open Circuit Voltage (Voc)	[V]	38.3
Short Circuit Current (Isc)	[A]	8.19

### I-V Curves



### Electrical Properties (STC\*)

Model	LG320N1K-V5	
Maximum Power (Pmax)	[W]	320
MPP Voltage (Vmpp)	[V]	33.3
MPP Current (Impp)	[A]	9.62
Open Circuit Voltage (Voc ± 5%)	[V]	40.8
Short Circuit Current (Isc ± 5%)	[A]	10.19
Module Efficiency	[%]	18.7
Bifaciality Coefficient of Power	[%]	10
Power Tolerance	[%]	0 ~ +3

\*STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM 1.5

### Operating Conditions

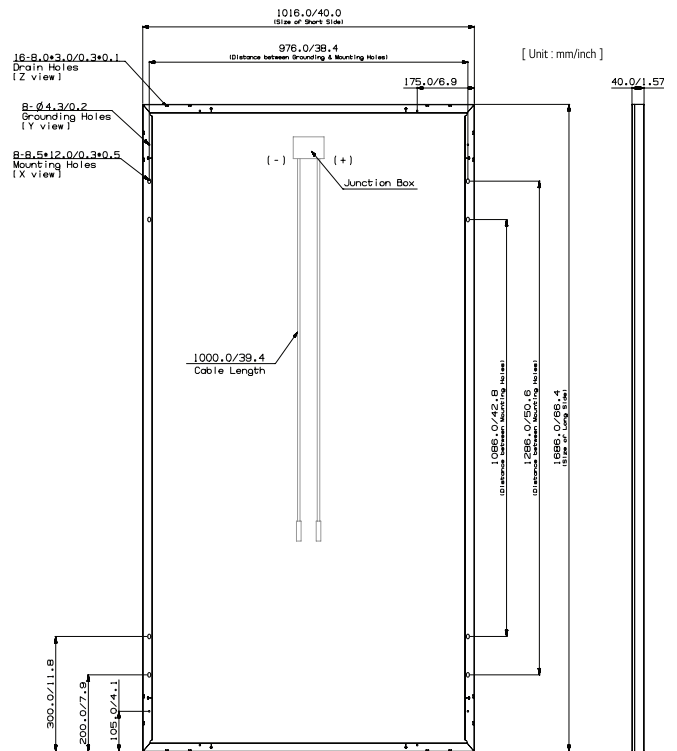
Operating Temperature	[°C]	-40 ~ +90
Maximum System Voltage	[V]	1,000(UL), 1000(IEC)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load (Front)	[Pa/psf]	5,400/113
Mechanical Test Load (Rear)	[Pa/psf]	4,000/84

\*Test Load = Design load x Safety Factor (1.5)

### Packaging Configuration

Number of Modules per Pallet	[EA]	25
Number of Modules per 40' Container	[EA]	650
Number of Modules per 53' Container	[EA]	850
Packaging Box Dimensions (L x W x H)	[mm]	1750 x 1,120 x 1,221
Packaging Box Dimensions (L x W x H)	[in]	69 x 44.25 x 48.25
Packaging Box Gross Weight	[kg]	485
Packaging Box Gross Weight	[lb]	1,070

### Dimensions (mm/inch)



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Product specifications are subject to change without notice.  
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