

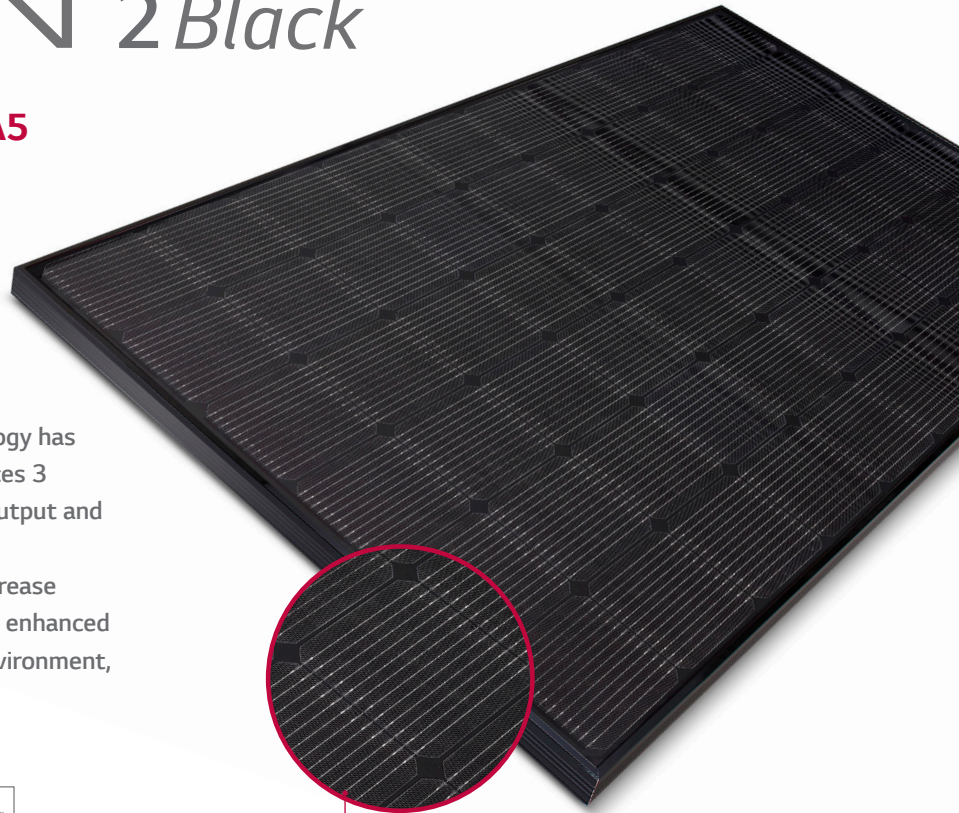
LG NeON[®] 2 Black

LG320N1K-A5 | LG315N1K-A5

60 cell

LG's new NeON[®] 2 Black based on Cello technology has become more powerful. Cello technology replaces 3 busbars with 12 thin wires to enhance power output and reliability.

NeON[®] 2 Black 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.



Cello Technology

Key Features



Enhanced Performance Warranty

LG NeON[®] 2 Black has an enhanced performance warranty. After 25 years, LG NeON[®] 2 Black is guaranteed at least 84.8% of initial performance.



High Power Output

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



Aesthetic Roof

LG NeON[®] 2 Black has been designed with aesthetics in mind; thinner wires that appear all black at a distance. The product 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[®] 2 Black for an additional 2 years. Additionally, LG NeON[®] 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[®] 2 Black now performs better on a sunny days thanks to its improved temperature coefficient.



Near Zero LID (Light Induced Degradation)

The n-type cells used in LG NeON[®] 2 Black have almost no boron, which may cause the initial performance degradation, leading to less LID.

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

LG320N1K-A5 / LG315N1K-A5

LG NeON[®] 2 Black

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 in
Front Load	6000Pa / 125 psf
Rear Load	5400Pa / 113 psf
Weight	18 kg / 39.68 lb
Connector Type	MC4 (MC)
Junction Box	IP68 with 3 Bypass Diodes
Cables	1000 mm x 2 ea / 39.37 in x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

Certifications and Warranty

Certifications	IEC 61215, IEC 61730-1/-2
	UL 1703
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
Module Fire Performance	ISO 9001
Fire Rating	Type 2 (UL)
Product Warranty	Class C
Output Warranty of Pmax	12 Years
	Linear Warranty*

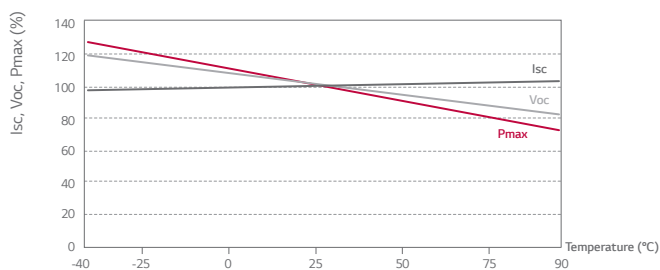
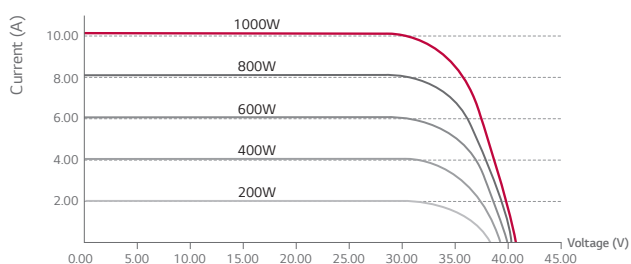
* 1) 1st year 98%, 2) After 2nd year: 0.55%p annual degradation, 3) 84.8% for 25 years

Temperature Characteristics

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

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

Characteristic Curves



Electrical Properties (STC*)

Model		LG320N1K-A5	LG315N1K-A5
Maximum Power (Pmax)	[W]	320	315
MPP Voltage (Vmpp)	[V]	33.3	32.9
MPP Current (Impp)	[A]	9.62	9.58
Open Circuit Voltage (Voc)	[V]	40.8	40.7
Short Circuit Current (Isc)	[A]	10.19	10.15
Module Efficiency	[%]	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	

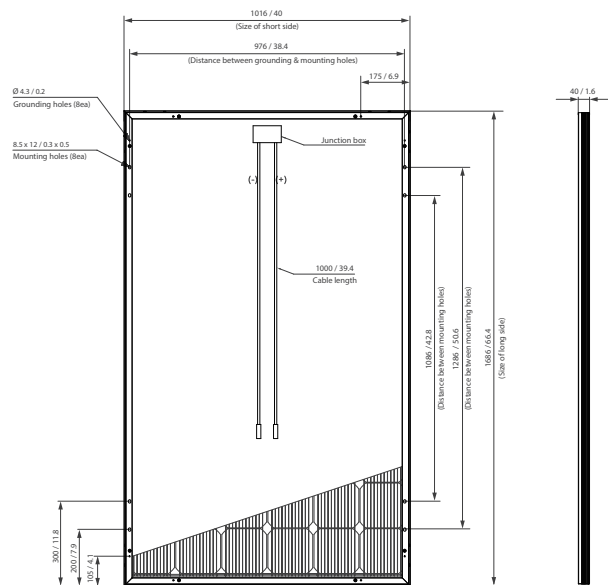
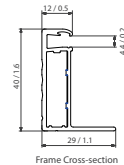
* STC (Standard Test Condition): Irradiance 1000 W/m², Module Temperature 25 °C, AM 1.5

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

Electrical Properties (NOCT)

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

Dimensions (mm / inch)



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

