

Innovation for a Better Life





LG320N1K-A5

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.











Enhanced Performance Warranty

LG NeON[™] 2 *Black* has an enhanced performance warranty. The annual degradation has fallen from -0.6%/yr to -0.55%/yr. Even after 25 years, the cell guarantees 1.2%p more output than the previous LG NeON[™] 2 *Black* 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.



Aesthetic Roof

LG NeON $^{\text{TM}}$ 2 Black has been designed with aesthetics in mind; thinner wires that appear all black at a distance. The product may help 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 LG NeONTM 2 *Black* for an additional 2 years. Additionally, LG NeONTM 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 $^{\text{TM}}$ 2 Black now performs better on sunny days thanks to its improved temperature coefficiency.



Double-Sided Cell Structure

The rear of the cell used in LG NeONTM 2 *Black* will contribute to generation, just like the front; the light beam reflected from the rear of the module is reabsorbed to generate a great amount of additional power.

About LG Electronics



Mechanical Properties

Cells 6 x 10 Cell Vendor LG Cell Type Monocrystalline / N-type		
	6 x 10	
Cell Type Monocrystalline / N-type	LG	
7,-	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 6000Pa		
Rear Load 5400Pa	5400Pa	
Weight 18 kg	18 kg	
Connector Type MC4		
Junction Box IP68 with 3 Bypass Diodes		
Cables 1000 mm x 2 ea	1000 mm x 2 ea	
Glass High Transmission Tempered Glass	High Transmission Tempered Glass	
Frame Anodized Aluminium	Anodized Aluminium	

Certifications and Warranty

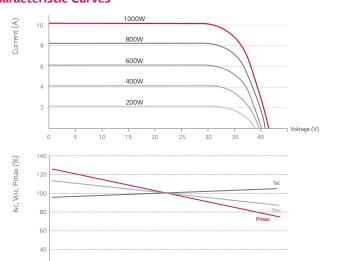
Certifications	IEC 61215, IEC 61730-1/-2	
	UL 1703	
	IEC 61701 (Salt mist corrosion test)	
	IEC 62716 (Ammonia corrosion test)	
	ISO 9001	
Module Fire Performance (USA)	Type 2	
Fire Rating (CANADA)	Class C	
Product Warranty	12 years	
Output Warranty of Pmax	Linear warranty**	

^{** 1) 1}st year : 98%, 2) After 2nd year : 0.55% annual degradation, 3) 25 years : 84.8%

Temperature Characteristics

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

Characteristic Curves



Electrical Properties (STC*)

Module	LG320N1K-A5	LG315N1K-A5	
Maximum Power (Pmax)	320	315	
MPP Voltage (Vmpp)	33.3	32.9	
MPP Current (Impp)	9.62	9.58	
Open Circuit Voltage (Voc)	40.8	40.7	
Short Circuit Current (Isc)	10.19	10.15	
Module Efficiency	18.7	18.4	
Operating Temperature	-40 -	-40 ~ +90	
Maximum System Voltage	1,0	1,000	
Maximum Series Fuse Rating	2	20	
Power Tolerance (%)	0 ~	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*)

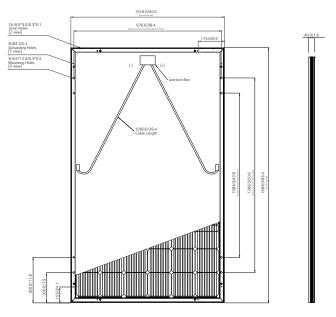
Module	LG320N1K-A5	LG315N1K-A5
Maximum Power (Pmax)	236	232
MPP Voltage (Vmpp)	30.8	3.04
MPP Current (Impp)	7.67	7.63
Open Circuit Voltage (Voc)	38.0	37.9
Short Circuit Current (Isc)	8.20	8.17

^{*} NOCT (Nominal Operating Cell Temperature): Irradiance 800W/ m^2 , ambient temperature 20 °C, wind speed 1m/s

Dimensions (mm/in)









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Product specifications are subject to change without notice.

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Temperature (°C)

