

Innovation for a Better Life





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 -0.5%/yr. Even after 25 years, the cell guarantees 2.4% more output than the previous LG NeON® 2 modules.





Roof Aesthetics

LG NeON® 2 Black has been designed with aesthetics in mind, using thinner wires that appear all black at a distance.



Improved Performance on Sunny Days

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



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.



Outstanding Durability

With its newly reinforced frame design, LG has extended the warranty of the NeON® 2 Black from 15 years to 25 years, including labor. In addition, LG NeON® 2 Black can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.



Near Zero LID

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

About LG Electronics





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 inch
Front Load	6000 Pa
Rear Load	5400 Pa
Weight	18 kg
Connector Type	MC4
Junction Box	IP68 with 3 Bypass Diodes
Length of Cables	1000 mm x 2 ea
Glass	Tempered Glass with AR Coating
Frame	Anodized Aluminum

Certifications and Warranty

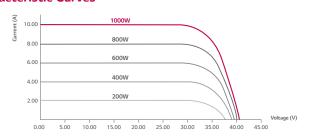
Certifications	IEC 61215, IEC 61730-1/-2	
	UL 1703	
	IEC 61701 (Salt mist corrosion test)	
	IEC 62716 (Ammonia corrosion test)	
	ISO 9001	
Module Fire Performance (USA)	Type 2	
Fire Rating (for CANADA)	Class C	
Product Warranty	25 years	
Output Warranty of Pmax	Linear warranty**	

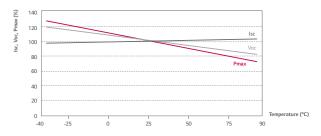
^{** 1) 1}st year : 98%, 2) After 1st year : 0.5% annual degradation, 3) 25 years : 86 %

Temperature Characteristics

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

Characteristic Curves





Electrical Properties (STC*)

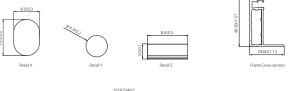
Module	LG315N1K-A5
Maximum Power (Pmax)	315
Maximum Fower (Finax)	313
MPP Voltage (Vmpp)	32.9
MPP Current (Impp)	9.58
Open Circuit Voltage (Voc)	40.7
Short Circuit Current (Isc)	10.15
Module Efficiency	18.4
Operating Temperature	-40 ~ +90
Maximum System Voltage	1,000
Maximum Series Fuse Rating	20
Power Tolerance (%)	0 ~ +3

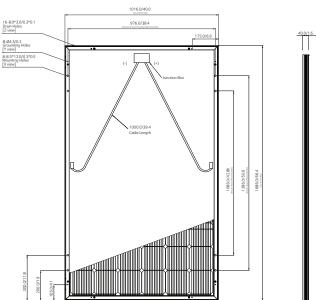
Electrical Properties (NOCT*)

Module	LG315N1K-A5	
Maximum Power (Pmax)	232	
MPP Voltage (Vmpp)	30.4	
MPP Current (Impp)	7.63	
Open Circuit Voltage (Voc)	37.9	
Short Circuit Current (Isc)	8.17	

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

Dimensions (mm/in)







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Product specifications are subject to change without notice. DS-N2-60-K-G-F-EN-50427

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^{*} 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/m 2 in relation to 1000 W/m 2 is -2.0%.