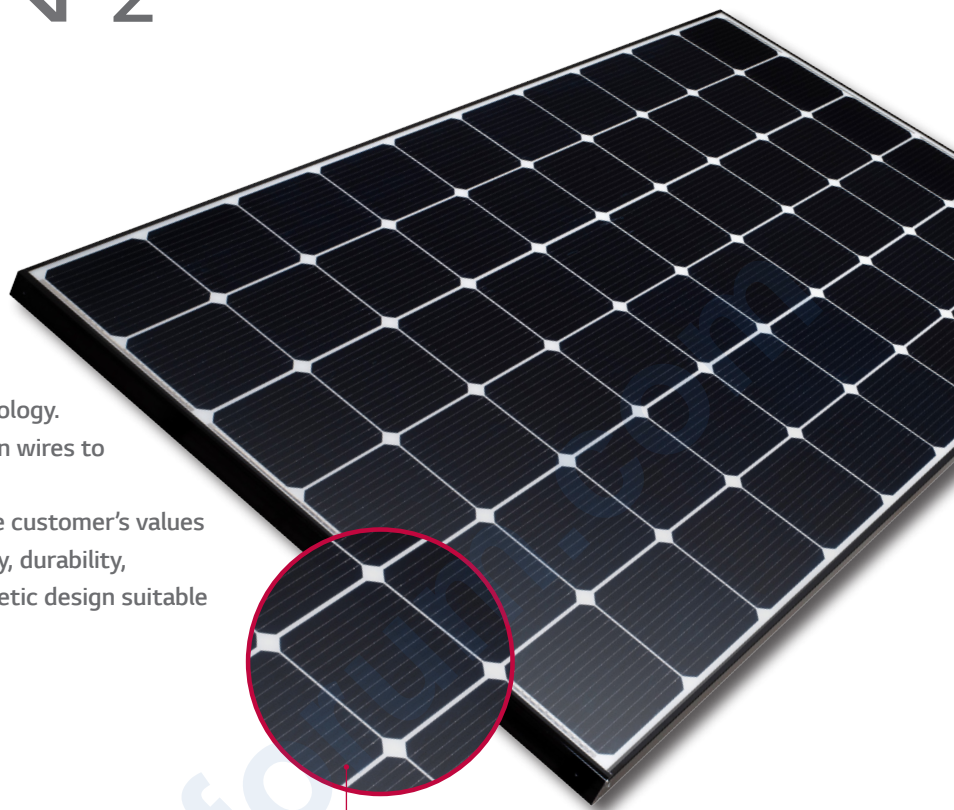


# LG NeON™ 2

LG300N1C-G4

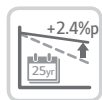
## 60 cell

LG's new module, NeON™ 2, adopts Cello technology. Cello technology replaces 3 busbars with 12 thin wires to enhance power output and reliability. 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.



Cello Technology

### Key Features



#### Enhanced Performance Warranty

LG NeON™ 2 has an enhanced performance warranty. The annual degradation has fallen from -0.7%/yr to -0.6%/yr. Even after 25 years, the cell guarantees 2.4%p more output than the previous NeON™ modules.



#### High Power Output

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



#### Aesthetic Roof

LG NeON™ 2 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 for an additional 2 years. Additionally, LG NeON™ 2 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 now performs better on a sunny days thanks to its improved temperature coefficient.






#### Double-Sided Cell Structure

The rear of the cell used in LG NeON™ 2 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

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) and The NeON™2 won the "Intersolar Award" in 2013 and 2015, which demonstrates LG Solar's lead, innovation and commitment to the industry.

## Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	156.75 x 156.75 mm / 6 x 6 inch
# of Busbar	12 (Multi Wire Busbar) 
Dimensions (L x W x H)	1640 x 1000 x 40 mm
	64.57 x 39.37 x 1.57 inch
Front Load	6000 Pa / 125 psf 
Rear Load	5400 Pa / 113 psf 
Weight	17.0 ± 0.5 kg / 37.48 ± 1.1 lbs
Connector Type	MC4, MC4 Compatible, IP67
Junction Box	IP67 with 3 Bypass Diodes
Length of Cables	2 x 1000 mm / 2 x 39.37 inch
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminum

## Certifications and Warranty

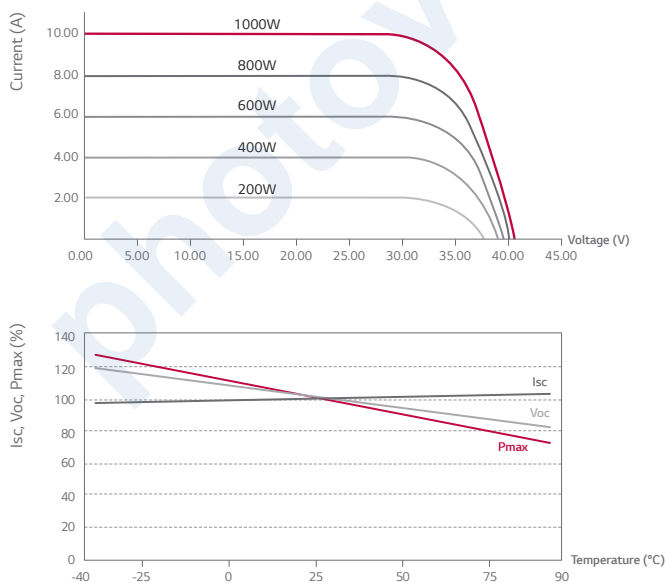
Certifications	IEC 61215, IEC 61730-1/-2, UL 1703, ISO 9001, IEC 62716 (Ammonia Test), IEC 61701(Salt Mist Corrosion Test),
Module Fire Performance	Type 2 (UL 1703)
Product Warranty	12 Years 
Output Warranty of Pmax	Linear Warranty* 

\* 1) 1st year: 98%, 2) After 2nd year: 0.6%p annual degradation, 3) 83.6% for 25 years

## Temperature Coefficients

NOCT	46 ± 3 °C
Pmpp	-0.38 %/°C
Voc	-0.28 %/°C
Isc	0.03 %/°C

## Characteristic Curves



### Electrical Properties (STC\*)

	300 W
MPP Voltage (Vmpp)	32.2
MPP Current (Impp)	9.34
Open Circuit Voltage (Voc)	39.8
Short Circuit Current (Isc)	9.90
Module Efficiency (%)	18.3
Operating Temperature (°C)	-40 ~ +90
Maximum System Voltage (V)	1000
Maximum Series Fuse Rating (A)	20
Power Tolerance (%)	0 ~ +3

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

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

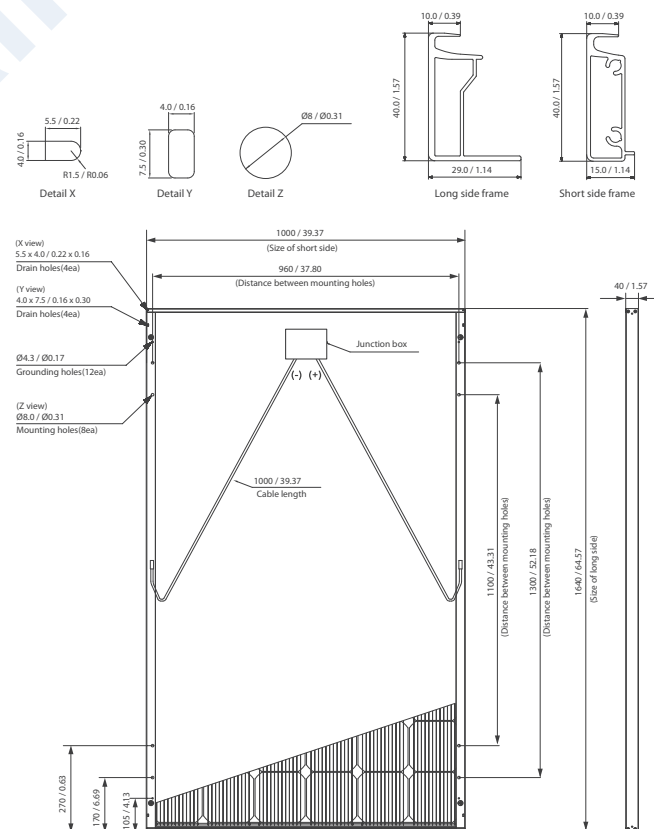
\* The typical change in module efficiency at 200 W/m<sup>2</sup> in relation to 1000 W/m<sup>2</sup> is -2.0%.

### Electrical Properties (NOCT\*)

	300 W
Maximum Power (P <sub>mp</sub> )	220
MPP Voltage (V <sub>mp</sub> )	29.5
MPP Current (I <sub>mp</sub> )	7.45
Open Circuit Voltage (V <sub>oc</sub> )	36.9
Short Circuit Current (I <sub>sc</sub> )	7.98

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

### Dimensions (mm / in)



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

