

STELLAR PERFORMER, GREAT LOOKER

LG NeON™ 2Black



UPDATE 2016

300 WATTS

TOTALLY BLACK

LG CELLO DESIGN

LG NeON™ 2 BLACK – ELEGANT DESIGN. CLEAN ENERGY.

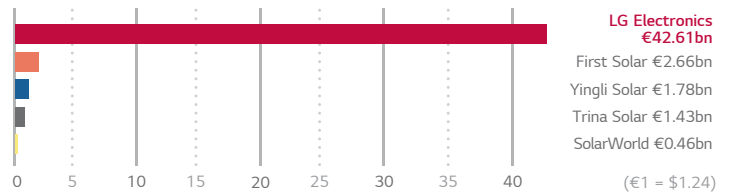
As its name suggests, the monocrystalline LG NeON™ 2 Black solar module is completely black. Its discreet design means it can easily be integrated into any house roof. And the new Cello technology delivers a reliable output of 300 WP.

LOCAL GUARANTOR, GLOBAL SECURITY

LG Solar is part of LG Electronics, a global and financially strong company, with over 50 years of experience.

Good to know: LG Electronics is the warrantor for your solar modules.

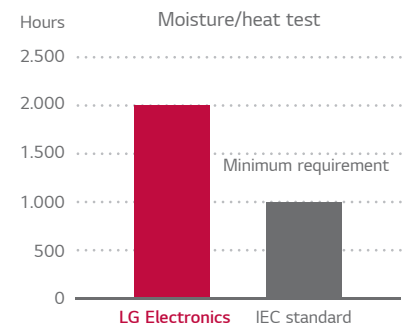
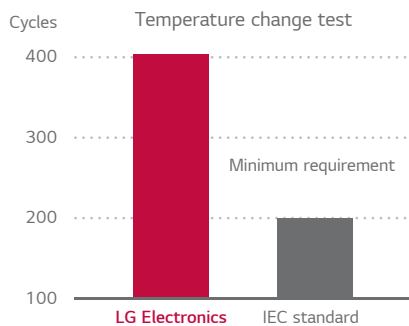
The warrantor's 2013 sales in billions of euros



EXCELLENT QUALITY, INDEPENDENTLY TESTED

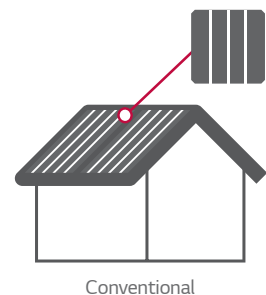
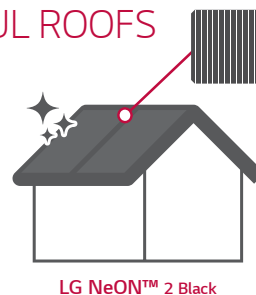
You can rely on LG. We test our products with double the intensity specified in the IEC standard. This quality is valued by installers across Europe, which is why they have awarded our LG solar modules the Top Brand PV stamp of quality for the highest recommendation rates for the third time in a row.

Moreover, they have already received the prestigious Intersolar Award as well as the Plus X Award – one of the biggest innovation awards for technology, sport and lifestyle.



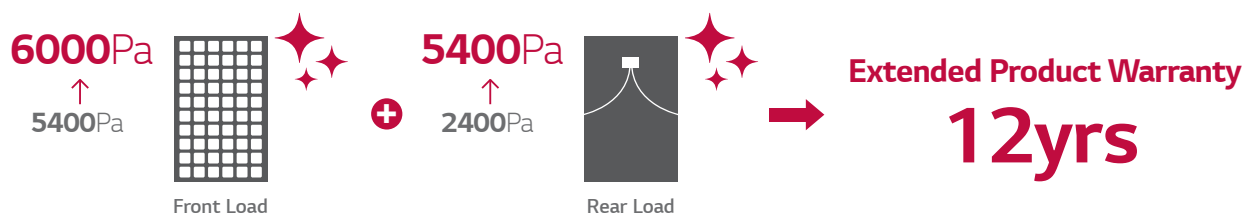
UNDERSTATED ELEGANCE FOR BEAUTIFUL ROOFS

The LG NeON™ 2 Black solar module featuring a black anodized frame and black back sheet has been designed with improved aesthetics. Thanks to the use of thinner wires, it now looks totally black even from a distance. Its elegant design will fit in easily with the appearance of your home and may increase its value.



POWERFUL DESIGN, GUARANTEED ROBUST

With reinforced frame design, LG NeON™ 2 Black can endure a front load up to 6000 Pa and a rear load up to 5400 Pa. Based on the improved rigidity, LG has extended the product warranty for additional 2 years.



LG NeON™ 2 Black

LG300N1K-G4

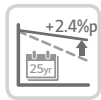
60 Cells

LG's new module, NeON™ 2 Black, adopts CELLO technology. 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 value beyond efficiency. It features enhanced warranty, durability, performance under real environmental conditions, and aesthetic design suitable for roofs.



CELLO technology

KEY FEATURES



Enhanced Performance Warranty

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



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.



Better Performance on a Sunny Day

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 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 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.



Double-Sided Cell Structure

The rear of the cell used in LG NeON™ 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

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. In 2013, the NeON™ (previous MonoX® NeON) won the "Intersolar Award", 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
# of Busbar	12 (Multi Wire Busbar)
Dimensions (L x W x H)	1640 x 1000 x 40 mm
Static Load	6000 Pa (snow load)
	5400 Pa (wind load)
Weight	17.0 ± 0.5 kg
Connector Type	MC4, IP67
Junction Box	IP67 with 3 Bypass Diodes
Length of Cables	2 x 1000 mm
Front cover	High Transmission Tempered Glass
Frame	Anodized Aluminum

Certifications and Warranty

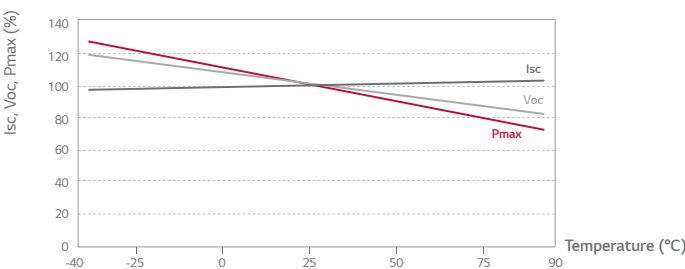
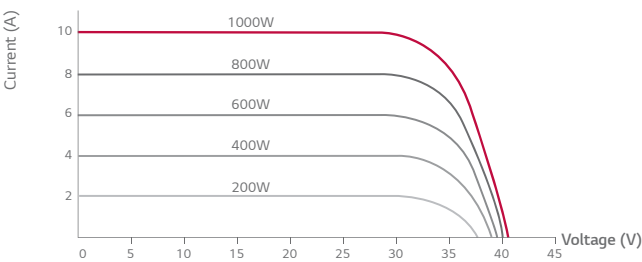
Certifications	IEC 61215, IEC 61730-1/-2
	IEC 62716 (Ammonia Test)
	IEC 61701 (Salt Mist Corrosion Test)
Module Fire Performance	Class C
Product Warranty	12 Years
Output Warranty of Pmax (Measurement Tolerance ± 3%)	25 years linear warranty ¹

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

Temperature Coefficients

NOCT	46 ± 3 °C
Pmpp	-0.38 %/°C
Voc	-0.28 %/°C
Isc	0.02 %/°C

Characteristic Curves



Electrical Properties (STC²)

	300 W
MPP Voltage Vmpp (V)	32.5
MPP Current Impp (A)	9.26
Open Circuit Voltage Voc (V)	39.7
Short Circuit Current Isc (A)	9.70
Module Efficiency (%)	18.3
Operating Temperature (°C)	-40 ~ +90
Maximum System Voltage (V)	1000
Maximum Series Fuse Rating (A)	20
Power Tolerance (%)	0 ~ +3

² 1) STC (Standard Test Condition): Irradiance 1000 W/m², Module Temperature 25 °C, AM 1.5.
 2) The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -3.0%.
 3) Application Class: A, Safety Class: II
 4) The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NOCT³)

	300 W
Maximum Power Pmax (W)	218
MPP Voltage Vmpp (V)	29.5
MPP Current Impp (A)	7.38
Open Circuit Voltage Voc (V)	36.5
Short Circuit Current Isc (A)	7.83

³ NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

Dimensions (mm)

