

HIGH EFFICIENT DESIGN

LG NeON[®] R *Black*

HIGHLIGHT 2017

UP TO 350 WATTS

**25 YEARS
PRODUCT WARRANTY**

**CONTACTLESS
CELLFRONT**

TRUE BLACK DESIGN



LG NeON[®] R BLACK – ELEGANCE AND PERFORMANCE

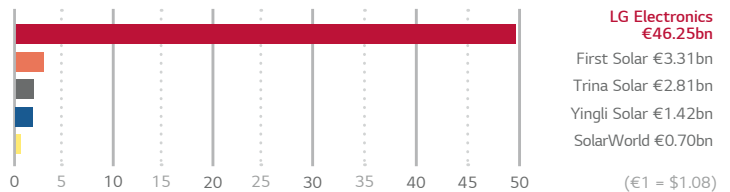
The LG NeON[®] R Black module is entirely black and is easy to integrate in any house roof. Thanks to its innovative cell technology, the LG NeON[®] R Black delivers reliable performance of up to 350 Wp and a strong 25 year product- and linear performance warranty. This combination is a perfect harmony of elegance, performance and safety.

LOCAL GUARANTOR, GLOBAL SECURITY

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

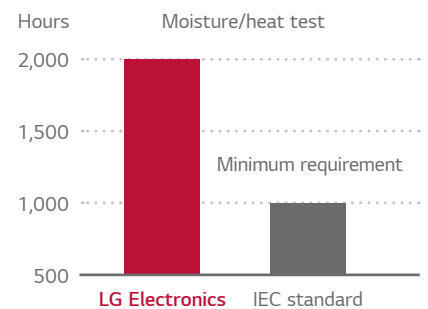
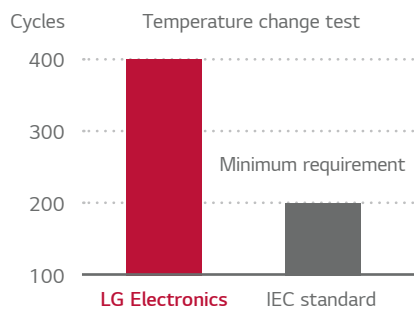
Good to know: LG Electronics is the warrantor for your solar modules.

The warrantor's 2015 sales in billions of euros



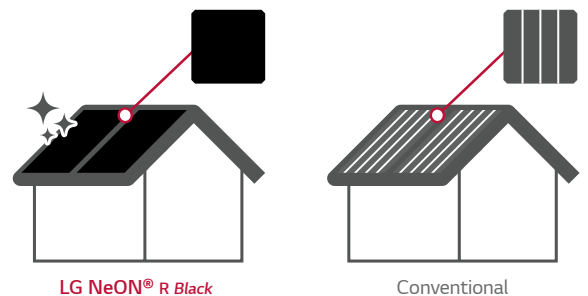
EXCELLENT QUALITY, INDEPENDENTLY TESTED

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 fourth time in a row.



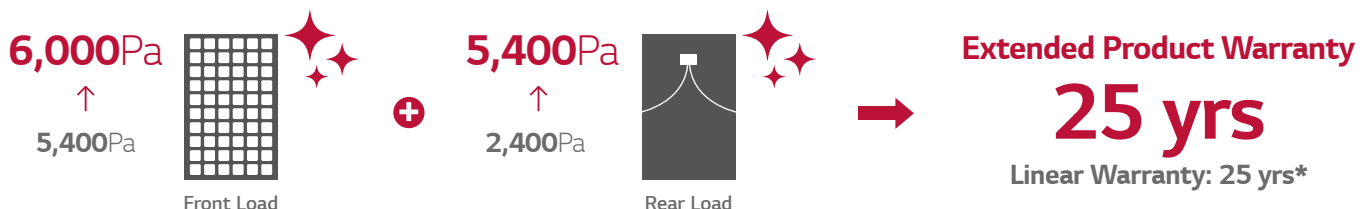
UNIQUE DESIGN FOR BEAUTIFUL ROOFS

The LG NeON[®] R Black is a high-performance solar module in a "True Black" design. With black anodized frame, black back sheet and a the new cell structure without any connectors or electrodes on the cell front, this product meets every demand for elegance. Its sophisticated design will match beautifully with the look of your home and may even increase its value.



POWERFUL DESIGN, GUARANTEED ROBUST

With reinforced frame design, LG NeON[®] R Black can endure a front load up to 6,000Pa (represents snow height of normal snow of more than 1,8 meters) and a rear load up to 5,400Pa (represents wind speed of up to 93 m/s, compare max. wind speed of Hurricane Katrina 2005 of max. 75 m/s).



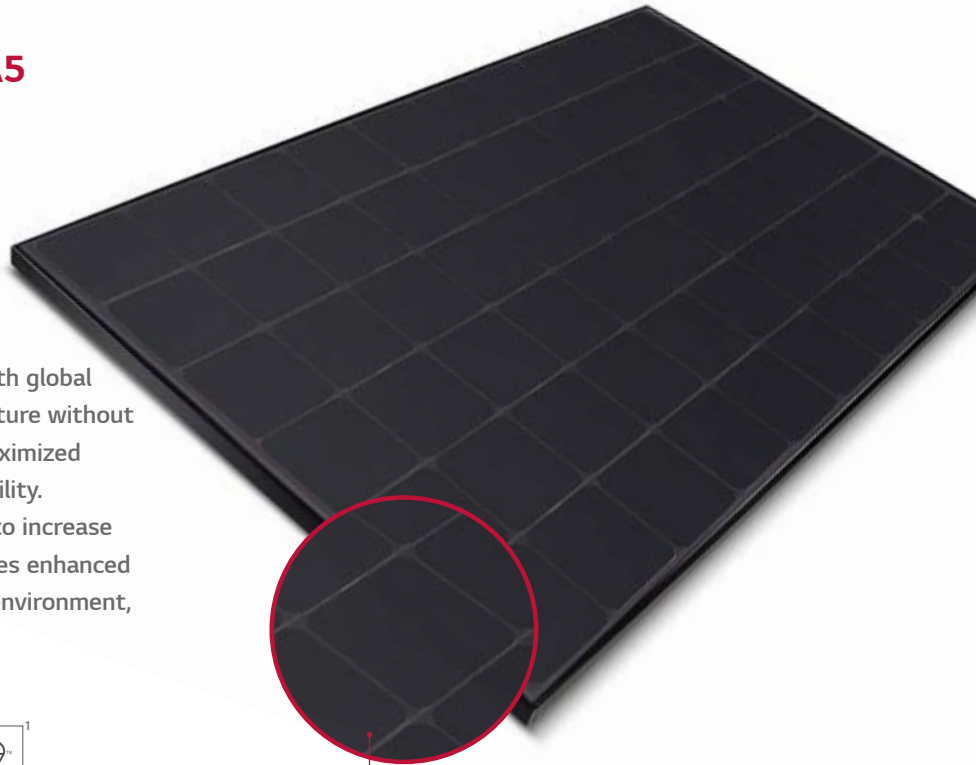
* 1) First 5 years: 95% 2) After 5th year: 0.4% annual degradation. 3) 25 years: 87%.

LG NeON[®] R Black

LG350Q1K-A5 | LG345Q1K-A5
LG340Q1K-A5

60 cell

LG NeON[®] R Black is new powerful product with global top level performance. Applied new cell structure without electrodes on the front, LG NeON[®] R Black maximized the utilization of light and enhanced its reliability. LG NeON[®] R Black demonstrates LG's efforts to increase customer's values beyond efficiency. It features enhanced warranty, durability, performance under real environment, and "True Black" design suitable for roofs.



No Metal on the Front



KEY FEATURES



Enhanced Performance Warranty

LG NeON[®] R Black has an enhanced performance warranty. After 25 years, LG NeON[®] R Black is guaranteed at least 87 % of initial performance.



True Black Roof

LG NeON[®] R Black has been designed with aesthetics in mind: no electrode on the front that makes new product close to true black. LG NeON[®] R Black can increase the value of a property with its modern design.



Better Performance on a Sunny Day

LG NeON[®] R Black now performs better on a sunny days thanks to its improved temperature coefficient.



High Power Output

The LG NeON[®] R Black has been designed to significantly enhance its output making it efficient even in limited space.



Outstanding Durability

With its newly reinforced frame design, LG NeON[®] R Black can endure a front load up to 6,000Pa, and a rear load up to 5,400Pa.



25 Years Product Warranty

As well as the enhanced performance warranty, LG has extended the product warranty of the LG NeON[®] R Black for additional 15 years to 25 years.

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 LG 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.

¹ In progress.

Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	161.7 x 161.7 mm
Dimensions (L x W x H)	1,700 x 1,016 x 40 mm
Front Load	6,000Pa
Rear Load	5,400Pa
Weight	18.5 kg
Connector Type	MC4, 05-8
Junction Box	IP68 with 3 Bypass Diodes
Cables	1,000 mm x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

Certifications and Warranty

Certifications	IEC 61215, IEC 61730-1/-2
	IEC TS 62804-1 (PID)
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
	ISO 9001
Module Fire Performance	Class C, Fire Class 1 (Italy) ²
Product Warranty	12 Years
Output Warranty of Pmax	25 years linear warranty ³

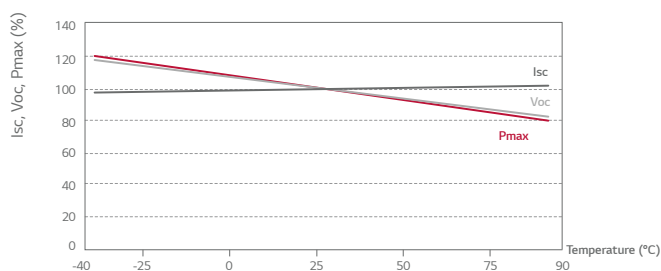
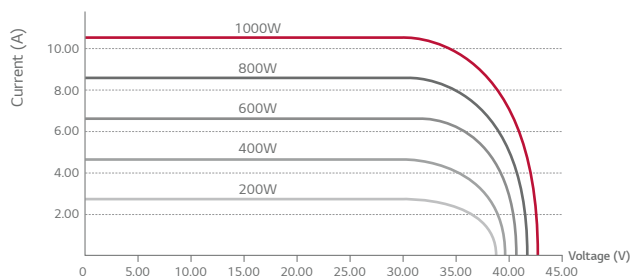
² In progress.

³ 1) 1st 5 years: 95%. 2) After 5th year: 0.4% annual degradation. 3) 87% for 25 years.

Temperature Characteristics

NOCT	[°C]	44 ± 3
Pmax	[%/°C]	-0.30
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.04

Characteristic Curves



Electrical Properties (STC⁴)

Model		LG350Q1K-A5	LG345Q1K-A5	LG340Q1K-A5
Maximum Power (Pmax)	[W]	350	345	340
MPP Voltage (Vmpp)	[V]	36.2	36.0	35.8
MPP Current (Impp)	[A]	9.68	9.59	9.51
Open Circuit Voltage (Voc)	[V]	42.9	42.7	42.5
Short Circuit Current (Isc)	[A]	10.39	10.33	10.28
Module Efficiency	[%]	20.3	20.0	19.7
Operating Temperature	[°C]	-40 ~ +90		
Maximum System Voltage	[V]	1,000		
Maximum Series Fuse Rating	[A]	20		
Power Tolerance	[%]	0 ~ +3		

⁴ 1) STC (Standard Test Condition): Irradiance 1,000 W/m², module temperature 25 °C, AM 1.5.

2) The typical change in module efficiency at 200 W/m² in relation to 1,000 W/m² is -4.5%.

3) Application Class: A, Safety Class: II.

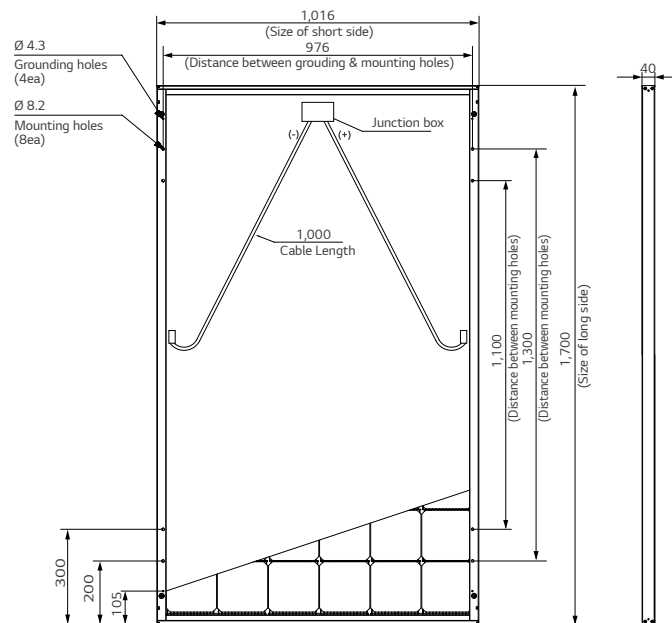
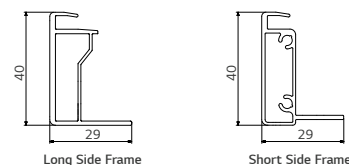
4) The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NOCT⁵)

Model		LG350Q1K-A5	LG345Q1K-A5	LG340Q1K-A5
Maximum Power (Pmax)	[W]	264	260	256
MPP Voltage (Vmpp)	[V]	36.1	35.9	35.7
MPP Current (Impp)	[A]	7.3	7.23	7.17
Open Circuit Voltage (Voc)	[V]	40.4	40.2	40.0
Short Circuit Current (Isc)	[A]	8.37	8.32	8.28

⁵ NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

Dimensions (mm)



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

