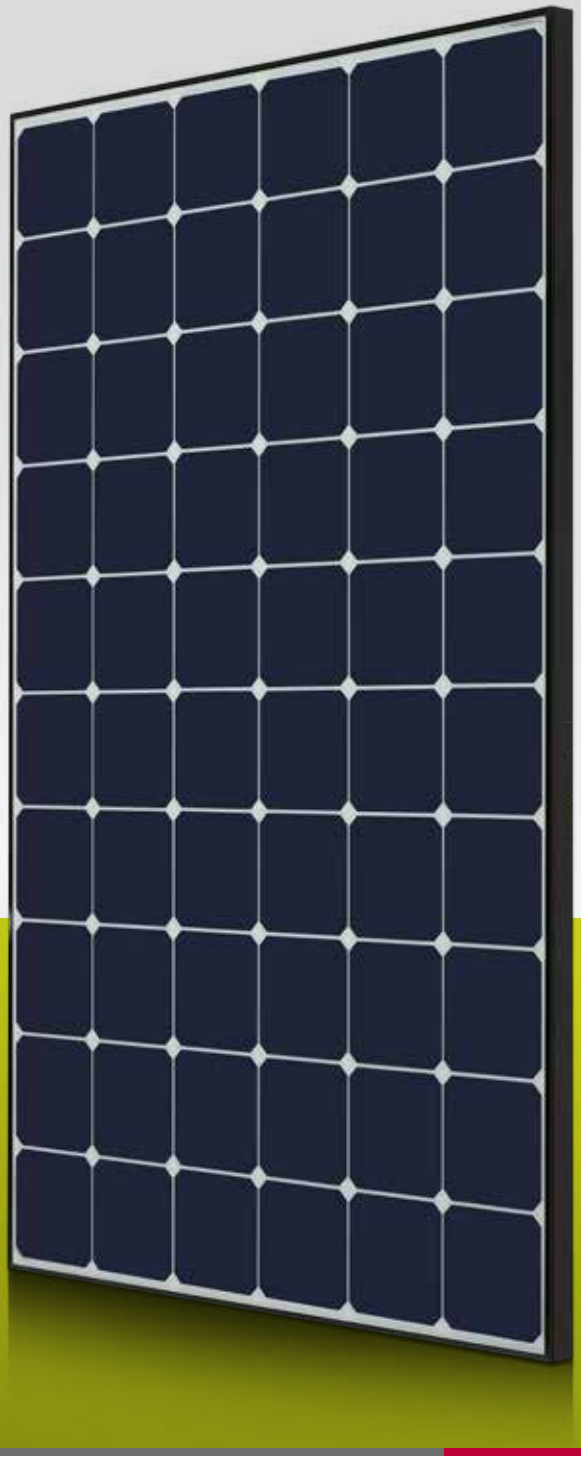
EN

The new high performance champion



25 YEARS LG
Product and Performance Warranty

Up to 400 Watts
Contactless cellfront
Aesthetic Design

LG
Life's Good

LG NeON®R
www.lg.com/uk/business/solar

LG NeON® R – performance & design with passion

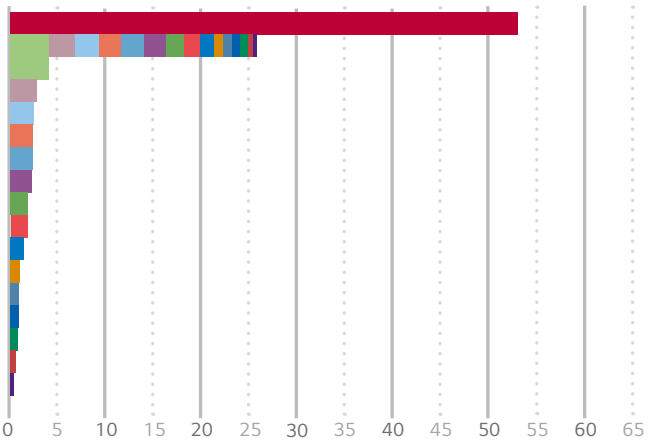
The LG NeON® R is the new high-performance solar module from LG. Its aesthetic design and outstanding performance of up to 400 Wp is a valuable addition to any roof. The 60 cell solar module can endure a static front load up to 6,000Pa, has an expanded product warranty of 25 years and a once-again improved linear performance warranty.

Local guarantor, global security

LG Solar is part of LG Electronics, a global and financially strong company, with over 60 years of experience.

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

The Warrantor's 2019 Global Sales in Billions of US Dollars



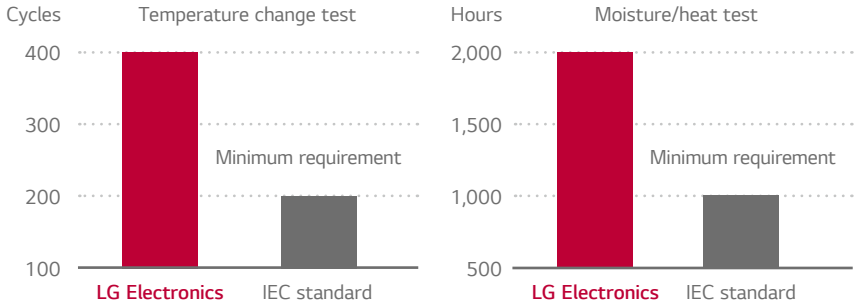
LG Electronics	**$53.0bn**
All below combined	$26.2bn
Jinko Solar*	$4.1bn
JA Solar*	$2.8bn
LONGi	$2.5bn
Canadian Solar*	$2.4bn
Trina Solar*	$2.4bn
Hanwha Q Cells*	$2.3bn
First Solar*	$1.9bn
Risen Energy*	$1.8bn
Sunpower/Maxeon	$1.4bn
Astronergy*	$1.0bn
Talesun Solar*	$0.9bn
Suntech Power*	$0.9bn
GCLSI*	$0.8bn
Panasonic*	$0.6bn
REC Group*	$0.4bn

*2019 Annual Financial Statements, IHS Markit - PV Module supplier Top 15

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 recommendationrates for the eighth time in a row.

EUPD RESEARCH TOP BRAND PV MODULES EUROPE 2021

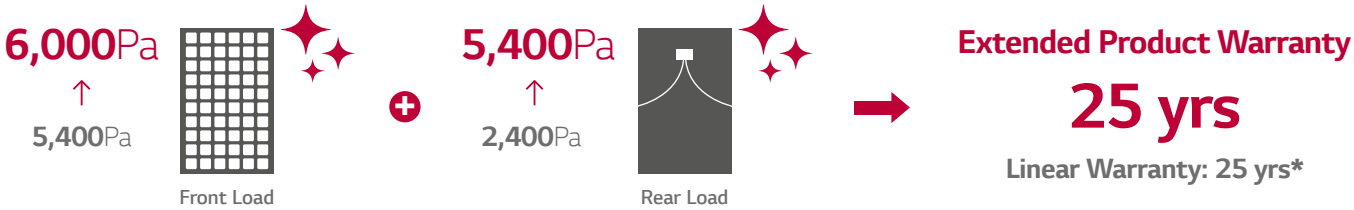


Strong design, powerful performance

The busbars on the LG NeON® R were mounted on the rear of the cells to expose the entire front side to light and therefore generate more electricity. LG creates an innovative and aesthetic cell design by incorporating 30 rear-side busbars instead of the standard busbars on the cell front, a revolutionary approach that guarantees outstanding module performance.

Powerful design, guaranteed robust (LG Standard)*

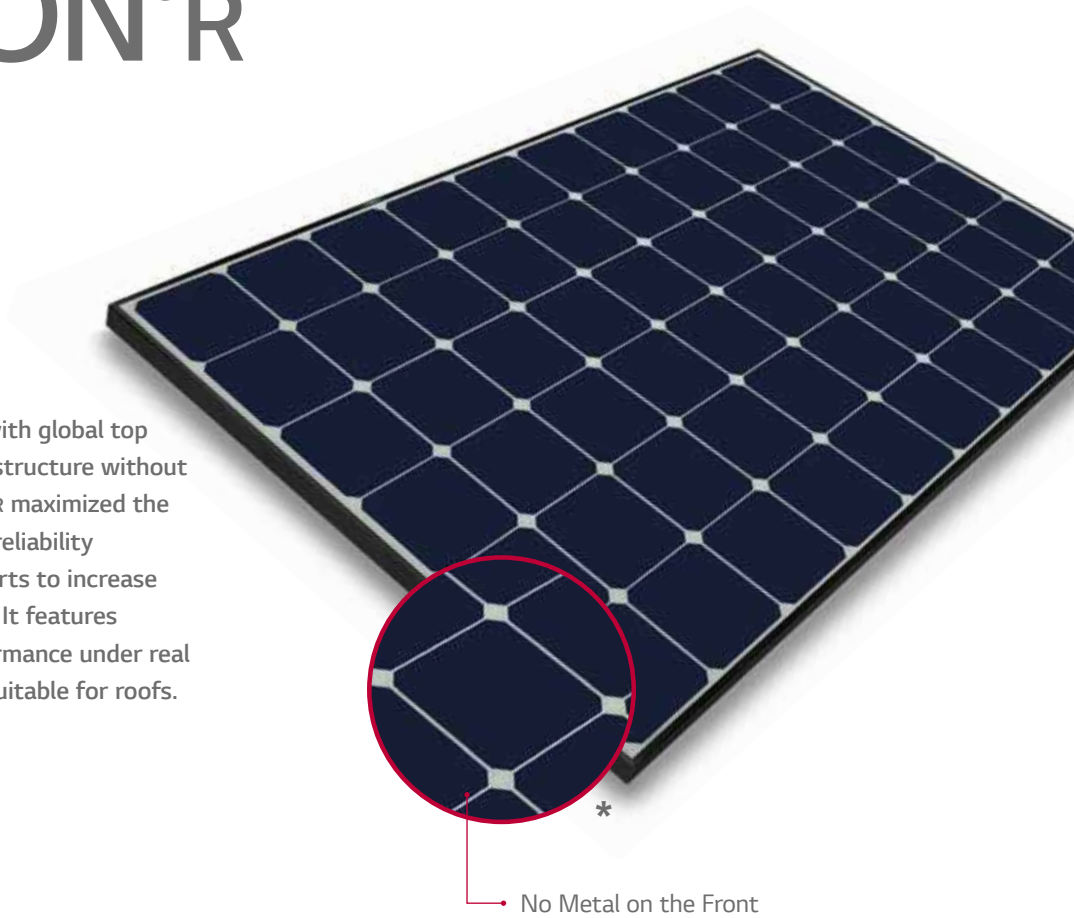
With reinforced frame design, LG NeON® R can endure a front load up to 6,000Pa (represents snow height of normal snow of more than 1.8 meters) and a rear load up to 5,400Pa (represents wind speed of up to 93 m/s, compare max. wind speed of Hurricane Katrina 2005 of max. 75 m/s).



* Module fully complies with the new IEC 61215-2: 2016 test procedures which confirmed 5.400 Pa front and 4.000 Pa rear side load. LG made internal tests to confirm 6.000 Pa front and 4.000 Pa rear side load also with new IEC 61215-2: 2016 norms. Further tests are on-going. Unless these tests turn out differently, LG confirms 6.000 Pa / 5.400 Pa.
** 1) First year: min. 98,5 %. 2) From 2nd year: max. 0.25 % annual degradation. 3) 25 years: 92.5 %.

LG NeON®R

400W | 395W | 390W



60 cell

LG NeON® R is a powerful product with global top level performance. Applied new cell structure without electrodes on the front, LG NeON® R maximized the utilization of light and enhanced its reliability LG NeON® R 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.

Key Features

Enhanced Performance Warranty

LG NeON® R has an enhanced performance warranty. After 25 years, LG NeON® R is guaranteed at least 92.5 % of initial performance.

High Power Output

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

Aesthetic Roof

LG NeON® R has been designed with aesthetics in mind: no electrode on the front that makes new product more aesthetic. LG NeON® R can increase the value of a property with its modern design.

Outstanding Durability

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

Better Performance on a Sunny Day

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

25 Years Product Warranty

In addition to the extended performance guarantee LG also offers a strong product guarantee for 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. 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.

* The darkness of the panel may vary depending on the specific manufacturing procedure, and does not affect the quality and performance of the panel.

Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Dimensions (L x W x H)	1,740 x 1,042 x 40mm
Front Load*	6,000Pa
Rear Load*	5,400Pa
Weight	18.5 kg
Connector Type	MC4 / Stäubli
Junction Box	IP68 with 3 Bypass Diodes
Cables	1,250 mm x 2 ea
Glass	Tempered Glass with AR Coating
Frame	Anodized Aluminium

*Manufacturer Declaration according to IEC 61215 : 2005
#Mechanical Test Loads 5400 Pa / 4000 Pa based on IEC61215-2 : 2016
(Test Load = Design Load x Safety Factor (1.5))

Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2: 2016, IEC 61730-1/2: 2016
	IEC 61701:2011 Severity 6 (Salt mist corrosion test)
	IEC 62716:2013 (Ammonia corrosion test)
	ISO 9001, ISO 14001, ISO 50001 ,OHSAS 18001
Module Fire Performance	Class C
Product Warranty	25 Years
Output Warranty of Pmax	25 years linear warranty[1]

[1] 1) First year 98,5%. 2) after 2nd year. 0,25 annual degradation 3) 25 years: min 92,5%

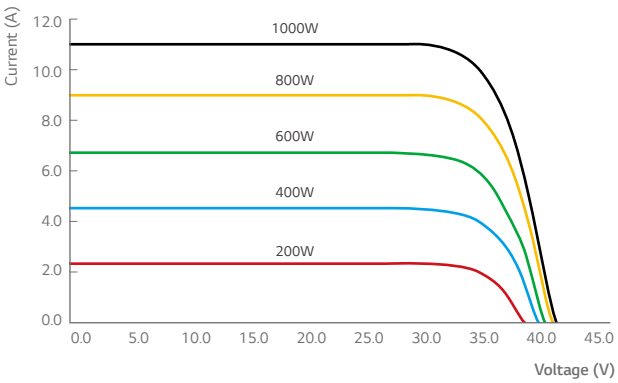
Temperature Characteristics

NMOT	[°C]	44 ± 3
Pmax	[%/°C]	-0.29
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.04

Packaging Configuration

Number of Modules Per Pallet	[EA]	25
Number of Modules Per 40ft HQ Container	[EA]	650
Packaging Box Dimensions (L x W x H)	[mm]	1,790 x 1,120 x 1,213
Packaging Box Gross Weight	[kg]	498

Characteristic Curves



Electrical Properties (STC[3])

Model		LG400Q1C-A6	LG395Q1C-A6	LG390Q1C-A6
Maximum Power (Pmax)	[W]	400	395	390
MPP Voltage (Vmpp)	[V]	37.2	37.0	36.7
MPP Current (Impp)	[A]	10.76	10.69	10.63
Open Circuit Voltage (Voc, ± 5%)	[V]	43.8	43.6	43.5
Short Circuit Current (Isc, ± 5%)	[A]	11.32	11.29	11.26
Module Efficiency	[%]	22.1	21.8	21.5
Operating Temperature	[°C]	-40 ~ +85		
Maximum System Voltage	[V]	1,000		
Maximum Series Fuse Rating	[A]	20		
Power Tolerance	[%]	0 ~ +3		

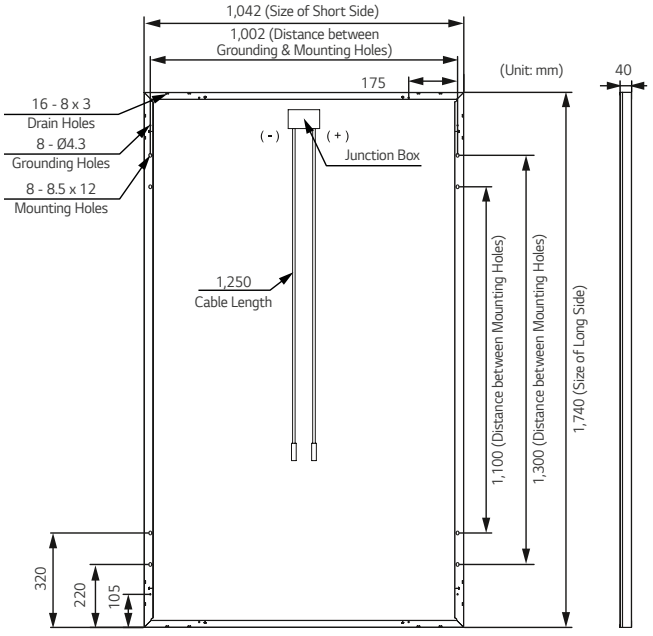
[3] 1) STC (Standard Test Condition): Irradiance 1,000 W/m², module temperature 25 °C, AM 1.5, Measure Tolerance of Pmax: ± 3 %.

Electrical Properties (NMOT[4])

Model		LG400Q1C-A6	LG395Q1C-A6	LG390Q1C-A6
Maximum Power (Pmax)	[W]	303	299	296
MPP Voltage (Vmpp)	[V]	35.2	34.9	34.7
MPP Current (Impp)	[A]	8.62	8.57	8.52
Open Circuit Voltage (Voc)	[V]	41.8	41.6	41.5
Short Circuit Current (Isc)	[A]	9.13	9.10	9.07

[4] NMOT (Nominal Module Operating Temperature) : Irradiance 800 W/m2, Ambient temperature 20 °C, Wind speed 1 m/s, Spectrum AM 1.5

Dimensions (mm)



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

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