

# LG NeON<sup>®</sup>R

The LG NeON<sup>®</sup>R is LG's highest efficiency module and provides world-class performance. The LG NeON<sup>®</sup>R applies LG's back-contact cell technology, eliminating electrodes on the front and thereby maximizing light absorption while improving overall performance.

## 440W | 435W | 430W

### FEATURES

**92.5%**  
in year 25

#### Enhanced Performance Warranty

LG NeON<sup>®</sup>R comes with an enhanced performance warranty. After 25 years of use, the LG NeON<sup>®</sup>R is guaranteed to provide at least 92.5% of initial performance.

**25**  
YEARS  
WARRANTY

#### Industry-Leading Product Warranty

LG offers an industry-leading 25 year product warranty on the NeON<sup>®</sup>R.



#### Reliable Quality

LG NeON<sup>®</sup>R offers reliable and proven quality through rigorous testing\*.

\* LG is subject to rigorous quality verification through PVEL PQP test. The PVEL PQP includes test sequences examining both the reliability and performance characteristics of PV modules.



66cell

#### About LG Electronics

LG is transforming today's solar landscape, offering high-efficiency solar panels for customers who demand high performance, reliability and consistently strong energy yield from a brand they can trust. LG's modules feature high power outputs, outstanding durability, appealing aesthetics and high-efficiency technology.



## General Data

Cell Properties (Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	66 Cells (6 x 11)
Module Dimensions (L x W x H)	1,910 x 1,042 x 40 mm
Weight	20.5 kg
Glass (Material)	Tempered Glass with AR coating
Backsheet (Color)	White
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,250 mm x 2 EA
Connector (Type / Maker)	MC4 / Stäubli

## Certifications and Warranty

Certifications	IEC 61215-1 / -1-1 / 2:2016, IEC 61730-1 / 2:2016, UL 61730-1:2017, UL 61730-2:2017
	ISO 9001, ISO 14001, ISO 50001
	OHSAS 18001
Salt Mist Corrosion Test	IEC 61701 : 2011 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Module Fire Performance	Type 1 (UL 61730)
Fire Rating	Class C (UL 790)
Solar Module Product Warranty	25 Years
Solar Module Output Warranty	Linear Warranty*

\* 1) First years : 98.5%, 2) After 1st year : -0.25%/year, 3) 92.5% for 25 years

## Temperature Characteristics

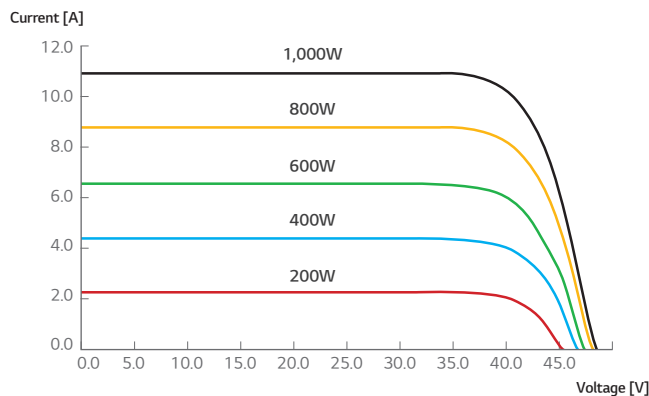
NMOT*	[°C]	44 ± 3
Pmax	[%/°C]	-0.29
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.04

\* NMOT (Nominal Module Operating Temperature)  
: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1m/s, Spectrum AM 1.5

## Electrical Properties (NMOT)

Model		LG440QAC-A6	LG435QAC-A6	LG430QAC-A6
Maximum Power (Pmax)	[W]	334	330	326
MPP Voltage (Vmpp)	[V]	39.1	38.8	38.6
MPP Current (Impp)	[A]	8.53	8.49	8.45
Open Circuit Voltage (Voc)	[V]	46.0	45.8	45.7
Short Circuit Current (Isc)	[A]	9.03	9.02	9.02

## I-V Curves



## Electrical Properties (STC\*)

Model		LG440QAC-A6	LG435QAC-A6	LG430QAC-A6
Maximum Power (Pmax)	[W]	440	435	430
MPP Voltage (Vmpp)	[V]	41.4	41.1	40.8
MPP Current (Impp)	[A]	10.64	10.59	10.54
Open Circuit Voltage (Voc, ± 5%)	[V]	48.2	48.0	47.9
Short Circuit Current (Isc, ± 5%)	[A]	11.20	11.20	11.19
Module Efficiency	[%]	22.1	21.9	21.6
Power Tolerance	[%]	0 - +3		

\* STC (Standard Test Condition)  
: Irradiance 1,000 W/m<sup>2</sup>, Cell temperature 25°C, AM 1.5, Measure tolerance of Pmax : ±3%

## Operating Conditions

Operating Temperature*	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load** (Front)	[Pa]	5,400
Mechanical Test Load** (Rear)	[Pa]	4,000

\* The operating ambient temperature of these devices may exceed 40°C at full load for all wire sizes if it is determined suitable in the field use application.

\*\* Based on IEC 61215-2 : 2016 (Test Load = Design Load x Safety Factor(1.5))

## Packaging Configuration

Number of Modules Per Pallet	[EA]	25
Number of Modules Per 40ft HQ Container	[EA]	600
Packaging Box Dimensions (L x W x H)	[mm]	1,960 x 1,120 x 1,221
Packaging Box Gross Weight	[kg]	549

## Dimensions (mm/inch)

