

LG NeON[®]R

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

400W | 395W | 390W

FEATURES

92.5%
in year 25

Enhanced Performance Warranty

LG NeON[®]R comes with an enhanced performance warranty. After 25 years of use, the LG NeON[®]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[®]R.



Reliable Quality

LG NeON[®]R offers reliable and proven quality through rigorous testing.



60_{cell}

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	60 Cells (6 x 10)
Module Dimensions (L x W x H)	1,740 x 1,042 x 40 mm
Weight	18.5 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 / Staubli

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

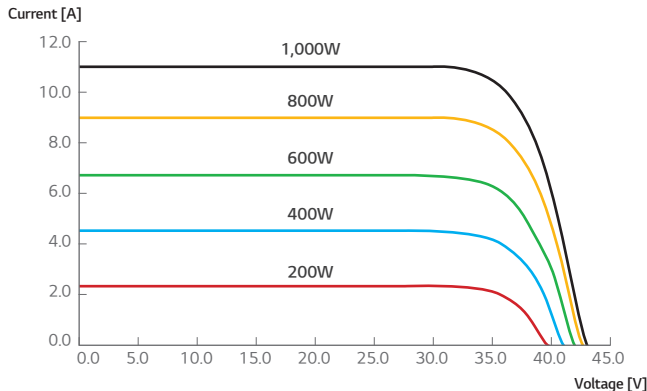
NMOT*	[°C]	44 ± 3
Pmax	[%/°C]	-0.29
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.04

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

Electrical Properties (NMOT)

Model		LG400Q1C-A6.B	LG395Q1C-A6.B	LG390Q1C-A6.B
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

I-V Curves



Electrical Properties (STC*)

Model		LG400Q1C-A6.B	LG395Q1C-A6.B	LG390Q1C-A6.B
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
Power Tolerance	[%]	0 ~ +3		

* STC (Standard Test Condition)
: Irradiance 1,000 W/m², 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]	650
Packaging Box Dimensions (L x W x H)	[mm]	1,790 x 1,120 x 1,213
Packaging Box Gross Weight	[kg]	498

Dimensions (mm/inch)

