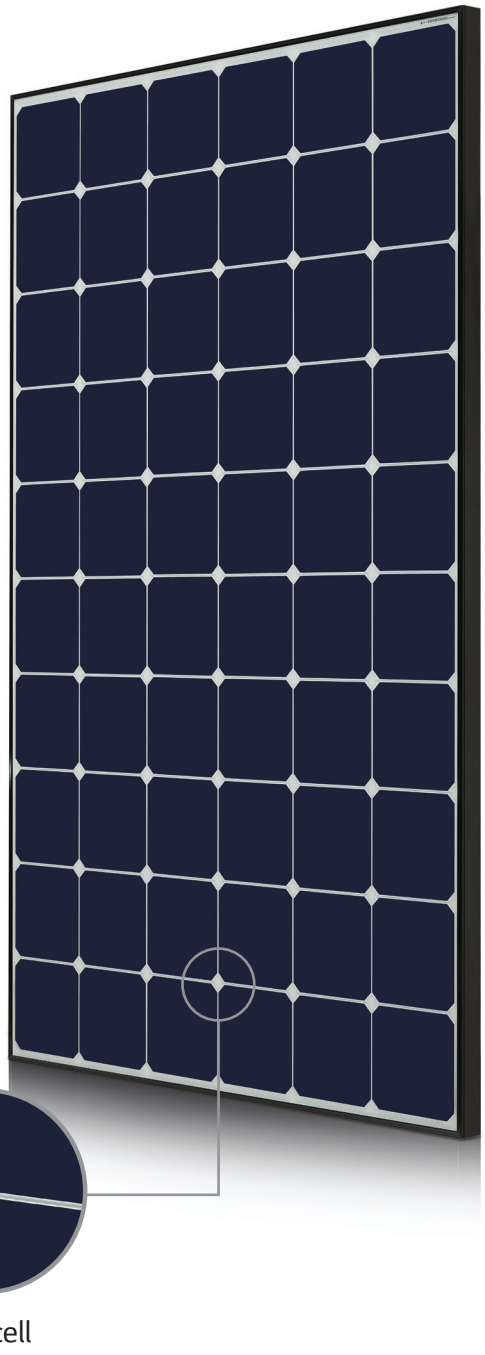
# LG NeON®R

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.

Solar-nu.nl

## 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.

60cell

**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.

LG Life's Good

# LG NeON®R

LG400Q1C-A6.B / LG395Q1C-A6.B / LG390Q1C-A6.B

## 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 / 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

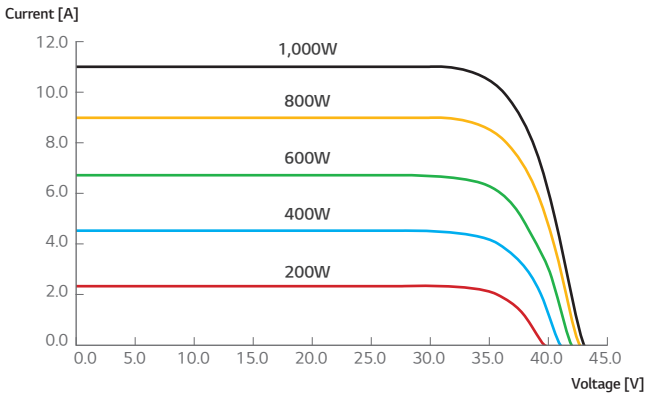
| | | |
|---|---|---|
| NMOT* | [°C] | 44 ± 3 |
| Pmax | [%/°C] | -0.29 |
| Voc | [%/°C] | -0.24 |
| Isc | [%/°C] | 0.04 |

* NMOT (Nominal Module Operating Temperature)
: Irradiance 800W/m², Ambient temperature 20℃, 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

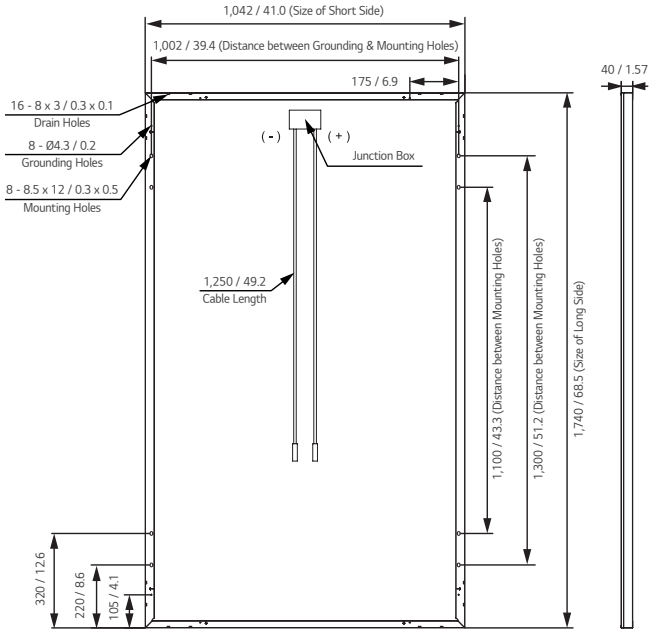
| | | |
|---|---|---|
| Operating Temperature* | [°C] | -40 ~ +85 |
| Maximum System Voltage | [V] | 1,000 |
| Maximum Series Fuse Rating | [A] | 20 |
| Mechanical Test Load** (Front) | [Pa] | 5,400 |
| Mechanical Test Load** (Rear) | [Pa] | 4,000 |

* The operating ambient temperature of these devices may exceed 40°C at full load for all wire sizes if 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)





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