

# LG NeON<sup>®</sup> R

LG350Q1C-A5

LG355Q1C-A5

LG360Q1C-A5

LG365Q1C-A5

## 60 cell

The LG NeON<sup>®</sup> R is a powerful solar module that provides world-class performance. A new cell structure that eliminates electrodes on the front maximizes the utilization of light and enhances reliability. The LG NeON<sup>®</sup> R is a result of LG's efforts to increase customer value beyond basic efficiency. The NeON<sup>®</sup> R features enhanced durability and performance under real-world conditions, an enhanced warranty and an aesthetic design suitable for roofs.



### Enhanced Warranties

LG offers a 25-year product warranty for LG NeON<sup>®</sup> R, including labor, in addition to an enhanced performance warranty. After 25 years, LG NeON<sup>®</sup> R is guaranteed to produce at least 88.4% of its initial power output.



### High Power Output

The LG NeON<sup>®</sup> R has been designed to significantly enhance its output, making it efficient even in limited spaces.



### Roof Aesthetics

LG NeON<sup>®</sup> R has been designed with aesthetics in mind: the lack of any electrodes on the front creates an improved, modern aesthetic.



### Outstanding Durability

With its newly reinforced frame design, LG NeON<sup>®</sup> R can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.



### Improved Performance on Sunny Days

LG NeON<sup>®</sup> R now performs better on sunny days, thanks to its improved temperature coefficient.



### Near Zero LID (Light Induced Degradation)

The n-type cells used in LG NeON<sup>®</sup> R have almost no boron. This leads to less LID right after installation.

## About LG Electronics

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. 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<sup>®</sup> series to the market, which is now available in 32 countries. The NeON<sup>®</sup> (previous MonoX<sup>®</sup> NeON), NeON<sup>®</sup>2, NeON<sup>®</sup>2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.

**LG Solar**

## Mechanical Properties

|                        |                                |
|------------------------|--------------------------------|
| Cells                  | 6 x 10                         |
| Cell Vendor            | LG                             |
| Cell Type              | Monocrystalline / N-type       |
| Cell Dimensions        | 161.7 x 161.7 mm / 6 inches    |
| Dimensions (L x W x H) | 1700 x 1016 x 40 mm            |
|                        | 66.93 x 40.0 x 1.57 inch       |
| Front Load             | 6,000Pa / 125 psf              |
| Rear Load              | 5,400Pa / 113 psf              |
| Weight                 | 18.5 kg / 40.79 lb             |
| Connector Type         | MC4                            |
| Junction Box           | IP68 with 3 Bypass Diodes      |
| Length of Cables       | 1000 mm x 2 ea                 |
| Glass                  | Tempered Glass with AR Coating |
| Frame                  | Anodized Aluminium             |

## Certifications and Warranty

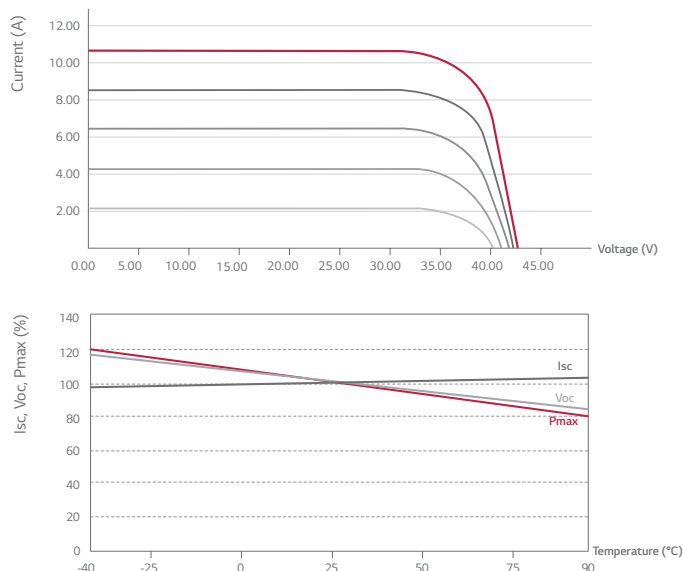
|                                |                                      |
|--------------------------------|--------------------------------------|
|                                | IEC 61215, IEC 61730-1/-2            |
|                                | UL 1703                              |
| Certifications                 | IEC 61701 (Salt mist corrosion test) |
|                                | IEC 62716 (Ammonia corrosion test)   |
|                                | ISO 9001                             |
| Module Fire Performance (USA)  | Type 1                               |
| Fire Resistance Class (CANADA) | Class C (ULC / ORD C1703)            |
| Product Warranty               | 25 years                             |
| Output Warranty of Pmax        | Linear warranty**                    |

\*\* 1) First 5 years: 95%, 2) After 5th year: 0.4% annual degradation, 3) 25 years: 88.4%

## Temperature Characteristics

|      |           |
|------|-----------|
| NOCT | 44 ± 3°C  |
| Pmpp | -0.30%/°C |
| Voc  | -0.24%/°C |
| Isc  | 0.04%/°C  |

## Characteristic Curves



## Electrical Properties (STC\*)

| Module                      | 350       | 355   | 360   | 365  |
|-----------------------------|-----------|-------|-------|------|
| Maximum Power (Pmax)        | 350       | 355   | 360   | 365  |
| MPP Voltage (Vmpp)          | 36.1      | 36.3  | 36.5  | 36.7 |
| MPP Current (Impp)          | 9.70      | 9.79  | 9.87  | 9.95 |
| Open Circuit Voltage (Voc)  | 42.7      | 42.7  | 42.7  | 42.8 |
| Short Circuit Current (Isc) | 10.77     | 10.78 | 10.79 | 10.8 |
| Module Efficiency           | 20.3      | 20.6  | 20.8  | 21.1 |
| Operating Temperature       | -40 ~ +90 |       |       |      |
| Maximum System Voltage      | 1000      |       |       |      |
| Maximum Series Fuse Rating  | 20        |       |       |      |
| Power Tolerance (%)         | 0 ~ +3    |       |       |      |

\* STC (Standard Test Condition): Irradiance 1,000 W/m<sup>2</sup>, Ambient Temperature 25 °C, AM 1.5

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

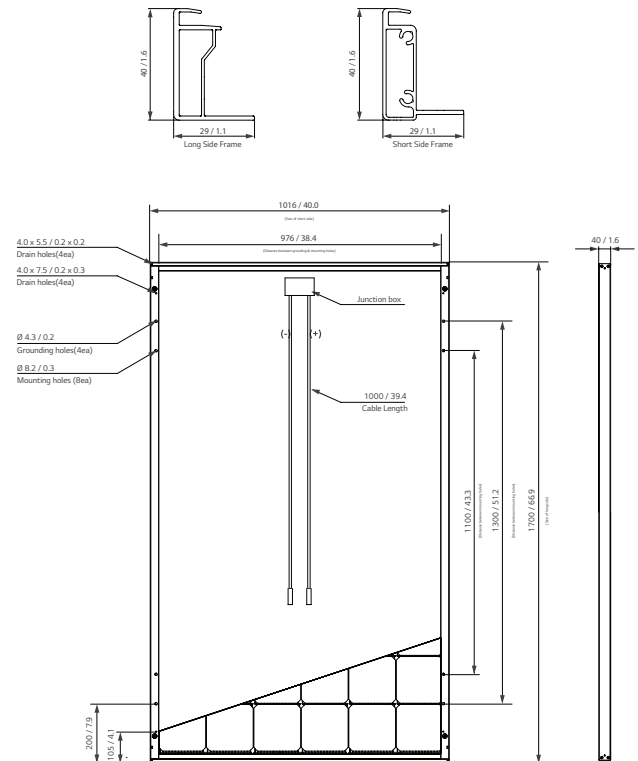
\* The typical change in module efficiency at 200 W/m<sup>2</sup> in relation to 1000 W/m<sup>2</sup> is -2.0%.

## Electrical Properties (NOCT\*)

| Module                      | 350  | 355  | 360  | 365  |
|-----------------------------|------|------|------|------|
| Maximum Power (Pmax)        | 263  | 267  | 271  | 275  |
| MPP Voltage (Vmpp)          | 36.0 | 36.2 | 36.4 | 36.6 |
| MPP Current (Impp)          | 7.32 | 7.39 | 7.45 | 7.51 |
| Open Circuit Voltage (Voc)  | 40.1 | 40.2 | 40.2 | 40.2 |
| Short Circuit Current (Isc) | 8.67 | 8.68 | 8.69 | 8.70 |

\* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s

## Dimensions (mm / inch)



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

