

LG NeON[®] R

LG350Q1C-A5

60 cell

The LG NeON[®] R is a high-power luxury solar panel featuring newly developed Back Contact Technology™. The advanced cell structure locates all of the module's electrodes on the back side of the panel, minimizing power loss and boosting efficiency.



Enhanced Warranties

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



High Power Output

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



Roof Aesthetics

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



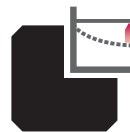
Outstanding Durability

With its newly reinforced frame design, LG NeON[®] 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[®] 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[®] R have almost no boron. This leads to less LID right after installation.

About LG Electronics

LG Electronics is a global player who has been committed to expanding its capacity, based on solar energy business as its future growth engine. We embarked on a solar energy source research program in 1985, supported by LG Group's rich experience in semi-conductor, LCD, chemistry, and materials industry. We successfully released first Mono X[®] series to the market in 2010, which were exported to 32 countries in the following 2 years, thereafter. In 2013, NeON[™] (previously known as Mono X[®] NeON) & 2015 NeON2 with CELLO technology won "Intersolar Award", which proved LG is the leader of innovation in the industry.

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

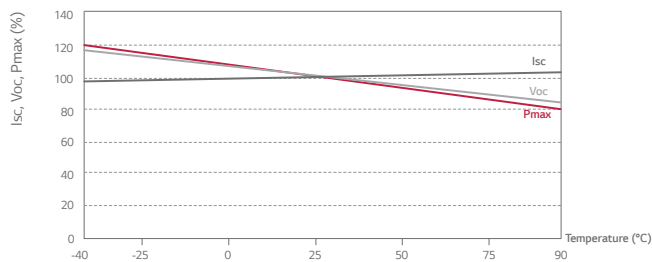
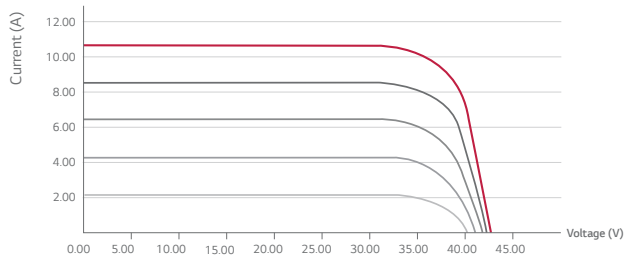
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|--------------------------------|--|
| Certifications | IEC 61215, IEC 61730-1/-2 UL 1703 IEC 61701 (Salt mist corrosion test) IEC 62716 (Ammonia corrosion test) ISO 9001 |
| Module Fire Performance (USA) | Type 1 |
| Fire Resistance Class (CANADA)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

**1) 1st year : 98%, 2) After 1st 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 |
| Maximum Power (Pmax) | 350 |
| MPP Voltage (Vmpp) | 36.1 |
| MPP Current (Impp) | 9.70 |
| Open Circuit Voltage (Voc) | 42.7 |
| Short Circuit Current (Isc) | 10.77 |
| Module Efficiency | 20.3 |
| 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/m², Ambient Temperature 25 °C, AM 1.5

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

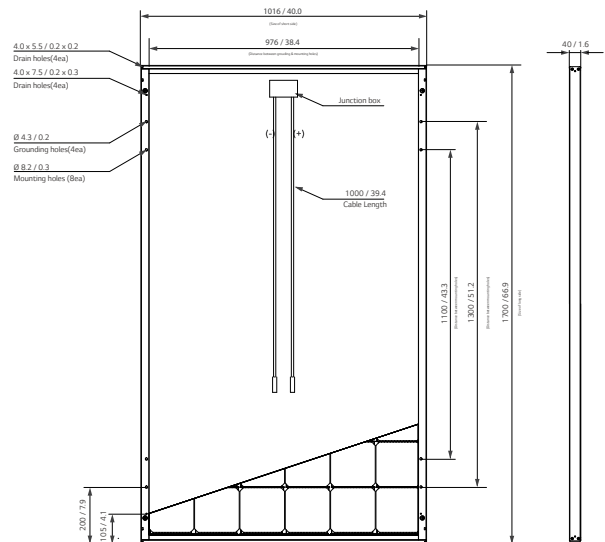
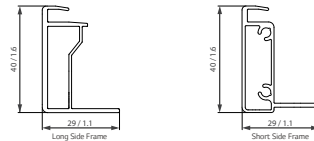
* The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -2.0%.

Electrical Properties (NOCT*)

| | |
|-----------------------------|------|
| Module | 350 |
| Maximum Power (Pmax) | 264 |
| MPP Voltage (Vmpp) | 36.0 |
| MPP Current (Impp) | 7.32 |
| Open Circuit Voltage (Voc) | 40.1 |
| Short Circuit Current (Isc) | 8.67 |

* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

Dimensions (mm/in)



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