LG NeON® R is a new powerful product with global top level performance. Applied new cell structure without electrodes on the front, LG NeON® R maximized the utilization of light and enhanced its reliability. LG NeON® R demonstrates LG’s efforts to increase customer’s values beyond efficiency. It features enhanced warranty, durability, performance under real environment, and aesthetic design suitable for roofs.

Enhanced Warranty
LG now offer 25 years product warranty to accommodate performance warranty as well. LG NeON® R has an enhanced performance warranty. After 25 years, LG NeON® R is guaranteed at least 87.0% of initial performance.

Aesthetic Roof
LG NeON® R has been designed with aesthetics in mind; no electrode on the front that makes new product more aesthetic. LG NeON® R can increase the value of a property with its modern design.

Better Performance on a Sunny Day
LG NeON® R now performs better on a sunny days thanks to its improved temperature coefficient.

High Power Output
The LG NeON® R has been designed to significantly enhance its output making it efficient even in limited space.

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.

Near Zero LID (Light Induced Degradation)
The n-type cells used in LG NeON® R have almost no boron, which may cause the initial performance degradation, leading to less LID.

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
Length of Cables: 1000 mm x 2 ea
Front Load: 6000Pa
Rear Load: 5400Pa
Weight: 18.5 kg
Connector Type: MC4
Junction Box: IP68 with 3 Bypass Diodes
Glass: High Transmission Tempered Glass
Frame: Anodized Aluminium

Certifications and Warranty

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**

Temperature Characteristics

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

Characteristic Curves

Electrical Properties (STC *)

Module: 365
Maximum Power (Pmax): 365
MPP Voltage (Vmpp): 36.7
MPP Current (Impp): 9.95
Open Circuit Voltage (Voc): 42.8
Short Circuit Current (Isc): 10.8
Module Efficiency: 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/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.
**1) First 5 years: 95%; 2) After 5th year: 0.4% annual degradation; 3) 25 years: 87.0%

Electrical Properties (NOCT*)

Module: 365
Maximum Power (Pmax): 275
MPP Voltage (Vmpp): 36.6
MPP Current (Impp): 7.51
Open Circuit Voltage (Voc): 40.2
Short Circuit Current (Isc): 8.70

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

Dimensions (mm/in)

- 44 ± 3 °C
- 0.30 %/°C
- 0.24 %/°C

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