



LG NeON[®] R Black **LG350Q1K-A5** **LG345Q1K-A5** **LG340Q1K-A5**

60 cell

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



In progress



In progress



In progress



In progress



Enhanced Performance Warranty

LG NeON[®] R Black has an enhanced performance warranty. After 25 years, LG NeON[®] R Black is guaranteed at least 87.6% of initial performance.



High Power Output

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



True Black Roof

LG NeON[®] R Black has been designed with aesthetics in mind: no electrode on the front that makes new product close to true black. LG NeON[®] R Black can increase the value of a property with its modern design.



Outstanding Durability

With its newly reinforced frame design, LG NeON[®] R Black can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.



Better Performance on a Sunny Day

LG NeON[®] R Black now performs better on a sunny days thanks to its improved temperature coefficient.



Near Zero LID (Light Induced Degradation)

The n-type cells used in LG NeON[®] R Black have almost no boron, which may cause the initial performance degradation, leading to less LID.

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
# of Busbar	30 (Multi Ribbon Busbar)
Dimensions (L x W x H)	1700 x 1016 x 40 mm
Front Load	6000Pa
Rear Load	5400Pa
Weight	18.5 kg
Connector Type	MC4
Junction Box	IP67 with 3 Bypass Diodes
Length of Cables	1000 mm x 2 ea
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* (UL1703)
Fire Resistance Class (CANADA)	Class C* (ULC/ORD C1703)
Product Warranty	TBD
Output Warranty of Pmax	Linear warranty**

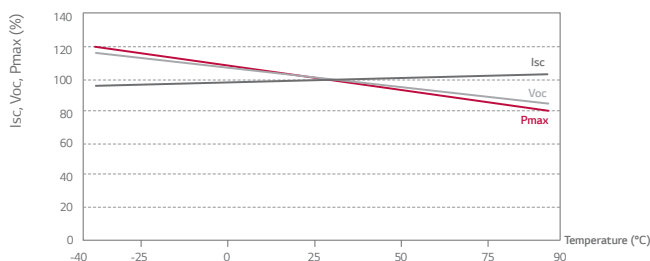
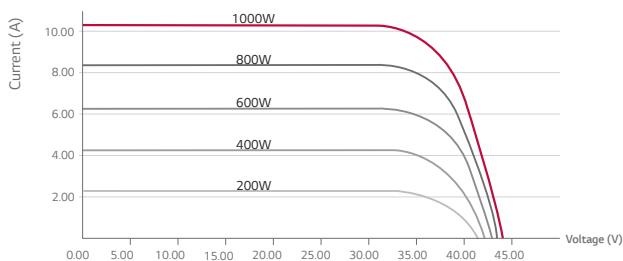
* TBD

**1) First 4 years : 96%, 2) After 5th year : 0.4% annual degradation, 3) 25 years : 87.6%

Temperature Characteristics

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

Characteristic Curves



Electrical Properties (STC *)

Including backside irradiation contribution in Isc as a percentage of STC**

Module	350	345	340
Maximum Power (Pmax)	350	345	340
MPP Voltage (Vmpp)	36.7	36.6	36.4
MPP Current (Impp)	9.55	9.44	9.35
Open Circuit Voltage (Voc)	43.6	43.5	42.6
Short Circuit Current (Isc)	10.29	10.29	10.27
Module Efficiency	20.3	20.0	19.7
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

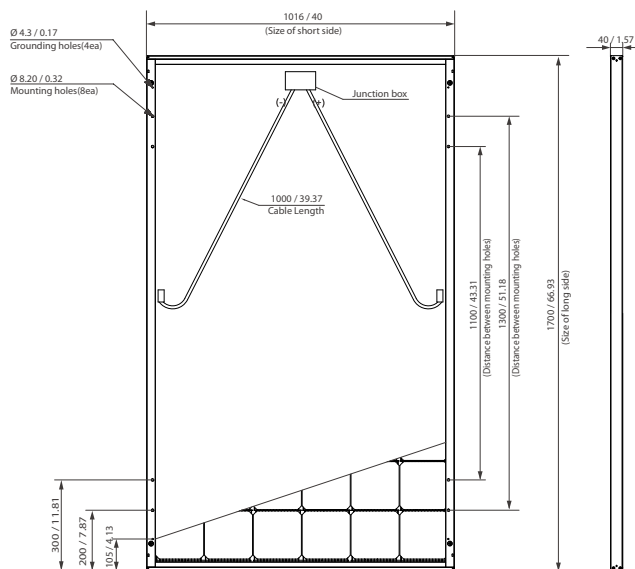
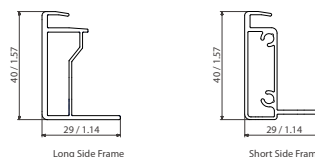
** The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NOCT*)

Module	350	345	340
Maximum Power (Pmax)	264	260	256
MPP Voltage (Vmpp)	36.6	36.5	36.3
MPP Current (Impp)	7.20	7.11	7.00
Open Circuit Voltage (Voc)	41.0	40.9	40.7
Short Circuit Current (Isc)	8.54	8.54	8.53

* 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.



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Product specifications are subject to change without notice.
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Innovation for a Better Life

