

# LG NeON<sup>®</sup>R Prime

LG350Q1K-V5 | LG355Q1K-V5 | LG360Q1K-V5 | LG365Q1K-V5 | LG370Q1K-V5

60

**350W | 355W | 360W | 365W | 370W**

LG Solar's NeON<sup>®</sup>R Prime is a powerful solar module that provides premium performance. The NeON<sup>®</sup>R incorporates a cell structure without electrodes on the front to maximize light utilization and enhance reliability. Providing added value for the customer beyond efficiency, this module features an enhanced warranty, outstanding durability, solid performance in real-world conditions and aesthetic design suitable for roofs.



## Features



### 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.



### Enhanced Product Warranty

LG has extended the warranty of the NeON<sup>®</sup>R to 25 years including labor, which is top level in the industry.



### Enhanced Performance Warranty

LG NeON<sup>®</sup>R has an enhanced performance warranty. After 25 years, LG NeON<sup>®</sup>R is guaranteed at least 90.8% of initial performance.



### More Generation Per Square Meter

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

**When you go solar, ask for the brand you can trust: LG Solar**

## 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**

## 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)	1,700mm x 1,016mm x 40mm
Weight	17.5 kg
Glass (Thickness/Material)	2.8mm/Tempered Glass with AR Coating
Backsheet (Color)	Black
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,000mm x 2EA
Connector (Type/Maker)	MC 4/MC

## Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2:2016, IEC 61730-1/-2:2016
	UL 1703
	ISO 9001, ISO 14001, ISO 50001
	OHSAS 18001
Salt Mist Corrosion Test	IEC 61701:2012 Severity 6
Ammonia Corrosion Test	IEC 62716:2013
Module Fire Performance	Type 2
Fire Rating	Class C (UL 790)
Product Warranty	25 Years
Output Warranty of Pmax	Linear Warranty*

\*Improved: 1st year 98%, from 2-24th year: 0.3%/year down, after 25th year: 90.8%

## Temperature Characteristics

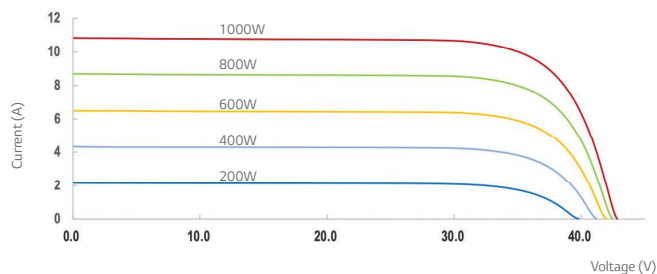
NMOT*	[ °C ]	44 ± 3
Pmax	[%/°C]	-0.30
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.037

\*NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m<sup>2</sup>, Ambient temperature 20 °C, Wind speed 1 m/s, Spectrum AM 1.5

## Electrical Properties (NMOT)

Model	LG350Q1K-V5	LG355Q1K-V5	LG360Q1K-V5	LG365Q1K-V5	LG370Q1K-V5
Maximum Power (Pmax) [W]	264	267	271	275	279
MPP Voltage (Vmpp) [V]	36.1	36.3	36.6	36.8	37.1
MPP Current (Impp) [A]	7.3	7.36	7.41	7.47	7.53
Open Circuit Voltage (Voc) [V]	40.4	40.6	40.8	41.0	41.2
Short Circuit Current (Isc) [A]	8.37	8.41	8.46	8.50	8.55

## I-V Curves



## Electrical Properties (STC\*)

Model	LG350Q1K-V5	LG355Q1K-V5	LG360Q1K-V5	LG365Q1K-V5	LG370Q1K-V5
Maximum Power (Pmax) [W]	350	355	360	365	370
MPP Voltage (Vmpp) [V]	36.2	36.4	36.7	36.9	37.2
MPP Current (Impp) [A]	9.68	9.76	9.82	9.9	9.97
Open Circuit Voltage (Voc) [V]	42.9	43.1	43.3	43.5	43.7
Short Circuit Current (Isc) [A]	10.39	10.44	10.50	10.55	10.61
Module Efficiency [%]	20.3	20.6	20.8	21.1	21.4
Power Tolerance [%]	0 ~ +3				

\*STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5  
Measure Tolerance: ± 3%

## Operating Conditions

Operating Temperature	[°C]	-40 ~ +90
Maximum System Voltage	[V]	1,000
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load (Front)	[Pa/psf]	5,400/113
Mechanical Test Load (Rear)	[Pa/psf]	4,000/83.5

\*Test Load = Design 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]	1,750 x 1,120 x 1,221
Packaging Box Gross Weight	[kg]	473

## Dimensions (mm/inch)

