# LG NeON®R

# LG375Q1C-V5



# 375W

LG NeON® R is 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.

LG NeON® R is a result of LG's efforts to increase customer's values beyond efficiency. LG NeON® R features enhanced durability, performance under real-world conditions, an enhanced warranty and aesthetic design suitable for roofs.













# **Features**



#### Aesthetic Roof

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



#### **Extended Product Warranty**

LG has extended the product warranty of the NeON® R to 25 years, which is top level in the industry.



#### **Enhanced Performance Warranty**

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



#### More generation per square meter

The LG NeON® 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® series to the market, which is now available in 32 countries. The NeON® (previous MonoX® NeON), NeON®2, NeON®2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry





#### LG375Q1C-V5

#### **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)	White
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP68 with 3 Bypass Diodes
Cables (Length)	1,000mm x 2EA
Connector (Type/Maker)	MC 4 / MC

#### Certifications and Warranty

cer tirications and warranty		
	IEC 61215-1/-1-1/2:2016, IEC 61730-1/2:2016,	
Certifications	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 1 (UL 1703)	
Fire Rating	Class C (UL 790, ULC / ORD C 1703)	
Product Warranty	25 Years	
Output Warranty of Pmax	Linear Warranty*	

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

#### **Temperature Characteristics**

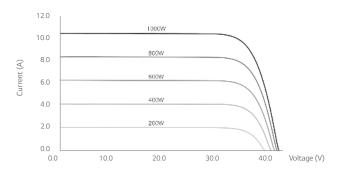
NMOT*	[°C]	44 ± 3
Pmax	[%/°C]	-0.30
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.037

<sup>\*</sup>NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², Ambient temperature 20 °C, Wind speed 1 m/s, Spectrum AM 1.5

#### **Electrical Properties (NMOT)**

Electrical Properties (Minor)		
Model		LG375Q1C-V5
Maximum Power (Pmax)	[W]	282
MPP Voltage (Vmpp)	[V]	37.1
MPP Current (Impp)	[A]	7.61
Open Circuit Voltage (Voc)	[V]	40.3
Short Circuit Current (Isc)	[A]	8.72

# I-V Curves



# Electrical Properties (STC\*)

Model		LG375Q1C-V5
Maximum Power (Pmax)	[W]	375
MPP Voltage (Vmpp)	[V]	37.2
MPP Current (Impp)	[A]	10.09
Open Circuit Voltage (Voc, ± 5%)	[V]	42.8
Short Circuit Current (Isc, ± 5%)	[A]	10.83
Module Efficiency	[%]	21.7
Power Tolerance	[%]	0~+3

<sup>\*</sup>STC (Standard Test Condition): Irradiance 1000 W/m², Cell temperature 25 °C, AM 1.5 \*\*Measure Tolerance:  $\pm\,3\%$ 

# **Operating Conditions**

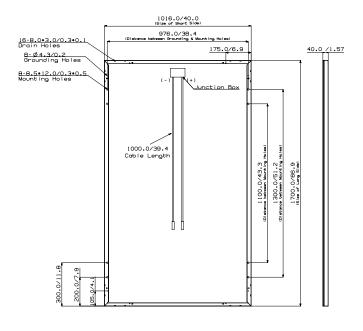
Operating Temperature	[°C]	-40 ~+90
Maximum System Voltage	[V]	1,000
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load (Front)	[Pa/psf]	5,400 / 113
Mechanical Test Load (Rear)	[Pa/psf]	4,000 / 83.5

Mechanical Test Load 5,400Pa / 4,000Pa based on IEC 61215-2 : 2016 (Test Load = Design Load  $\times$  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)







© 2019 LG Electronics. All rights reserved.

Weddare Toterance. 2 37