LG NeON®R

LG405Q1C-A6

60

405W

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



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.



25-Year Limited Product Warranty

The NeON® R is covered by a 25-year limited product warranty. In addition, up to \$450 of labor costs will be covered in the rare case that a module needs to be repaired or replaced.



Enhanced Performance Warranty

The LG NeON® R has an enhanced performance warranty. After 25 years, LG NeON® R is guaranteed at least 92.5% of initial performance.

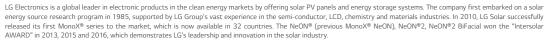


More generation per square meter

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 USA, Inc.







LG405Q1C-A6

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)	1,740mm x 1,042mm x 40mm
Weight	18.5 kg
Glass (Material)	Tempered Glass with AR Coating
Backsheet (Color)	White
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,250mm x 2EA
Connector (Type/Maker)	MC 4 / MC

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Certifications and vvarranty			
Certifications*	IEC 61215-1/-1-1/2: 2016, IEC 61730-1/2: 2016,		
	UL 61730-1 : 2017, UL 61730-2:2017		
	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 61730)		
Fire Rating	Class C (UL 790, ULC / ORD C 1703)		
Solar Module Product Warranty	25 Years		
Solar Module Output Warranty	Linear Warranty*		

^{*}Improved: 1st year 98.5%, from 2-24th year: -0.25%/year down, 92.5% at year 25

Temperature Characteristics

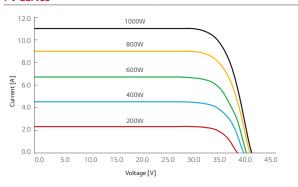
NMOT*	[°C]	44 ± 3
Pmax	[%/°C]	-0.29
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.04

^{*}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)

Model		LG405Q1C-A6
Maximum Power (Pmax)	[W]	307
MPP Voltage (Vmpp)	[V]	35.4
MPP Current (Impp)	[A]	8.67
Open Circuit Voltage (Voc)	[V]	41.9
Short Circuit Current (Isc)	[A]	9.15

I-V Curves



Electrical Properties (STC*)

Model		LG405Q1C-A6
Maximum Power (Pmax)	[W]	405
MPP Voltage (Vmpp)	[V]	37.5
MPP Current (Impp)	[A]	10.82
Open Circuit Voltage (Voc,±5%)	[V]	43.9
Short Circuit Current (Isc, ± 5%)	[A]	11.35
Module Efficiency	[%]	22.3
Power Tolerance	[%]	0~+3

^{*}STC (Standard Test Condition): Irradiance 1000 W/m², Cell temperature 25°C, AM 1.5 Measure Tolerance: ±3%

Operating Conditions

Operating Temperature*	[°C]	-40 ~+85
Maximum System Voltage	[V]	1,000
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load** (Front)	[Pa/psf]	5,400
Mechanical Test Load** (Rear)	[Pa/psf]	4,000

^{*}The operating ambient temperature of these devices may exceed $40^{\circ}C$ at full load for all wire sizes if is determined suitable in the field use application.

**Based on IEC 61215-2: 2016 (Test Load = Design Load x Safety Factor (1.5))

Packaging Configuration

[EA]	25
	650
	850
	1,790 x 1,120 x 1,227
	70.5 x 44.1 x 48.3
[kg]	498
[lb]	1,098

Dimensions (mm/inch)

