LG NeON®R Prime

LG425QAK-A6 Preliminary

66

425W

LG Solar's NeON® R Prime is a powerful solar module that provides premium performance. The NeON® 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® 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 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

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.







LG425QAK-A6

General Data

Cell Properties (Material/Type)	Monocrystalline/N-type
Cell Maker	LG
Cell Configuration	66 Cells (6 x 11)
Module Dimensions (L x W x H)	1,910mm x 1,042mm x 40mm
Weight	20.5 kg
Glass (Material)	Tempered Glass with AR Coating
Backsheet (Color)	Black
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,250mm x 2EA
Connector (Type/Maker)	MC 4/MC

Certifications and Warranty

IEC 61215-1/-1-1/2 : 2016, IEC 61730-1/2 : 2016, UL 61730-1/2 : 2017, 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 Hail Test 25mm (1") diameter at 23m/s (52mph) Module Fire Performance Type 2 (UL 61730) Fire Rating Class C (UL 790, ULC/ORD C 1703) Solar Module Product Warranty 25 Year Limited Solar Module Output Warranty Linear Warranty*	Certifications and warranty		
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	Fire Rating	Class C (UL 790, ULC/ORD C 1703)	
Solar Module Output Warranty Linear Warranty*	Solar Module Product Warranty	25 Year Limited	
	Solar Module Output Warranty	Linear Warranty*	

^{*}Improved: 1* year 98.5%, from 2-24th year: -0.25%/year down, 92.5% for 25 years (TBD) **In Progress

Temperature Characteristics

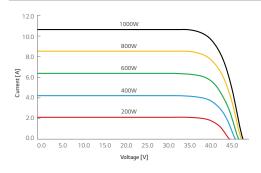
NMOT*	[°C]	44 ± 3
Pmax	[%/°C]	-0.29
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.04

^{*}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		LG425QAK-A6
Maximum Power (Pmax)	[W]	322
MPP Voltage (Vmpp)	[V]	39.0
MPP Current (Impp)	[A]	8.26
Open Circuit Voltage (Voc)	[V]	45.9
Short Circuit Current (Isc)	[A]	8.74

I-V Curves



Electrical Properties (STC*)

Model		LG425QAK-A6
Maximum Power (Pmax)	[W]	425
MPP Voltage (Vmpp)	[V]	41.3
MPP Current (Impp)	[A]	10.31
Open Circuit Voltage (Voc, ± 5%)	[V]	48.1
Short Circuit Current (Isc, ± 5%)	[A]	10.84
Module Efficiency	[%]	21.4
Power Tolerance	[%]	0~+3

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

Operating Conditions

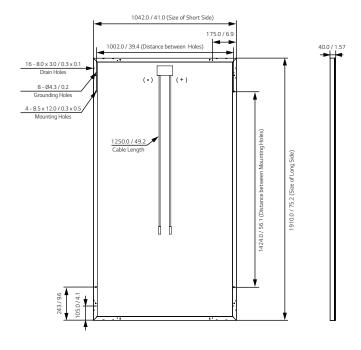
Operating Temperature*	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load** (Front)	[Pa/psf]	5,400
Mechanical Test Load** (Rear)	[Pa/psf]	4,000

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

Packaging Configuration

Number of Modules per Pallet	[EA]	25
Number of Modules per 40' Container	[EA]	600
Number of Modules per 50' Container	[EA]	TBD
Packaging Box Dimensions (L x W x H)	[mm]	1,960 x 1,120 x 1,221
Packaging Box Dimensions (L x W x H)	[in]	77.2 x 44.1 x 48.1
Packaging Box Gross Weight	[kg]	549
Packaging Box Gross Weight	[lb]	1,210

Dimensions (mm/inch)



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