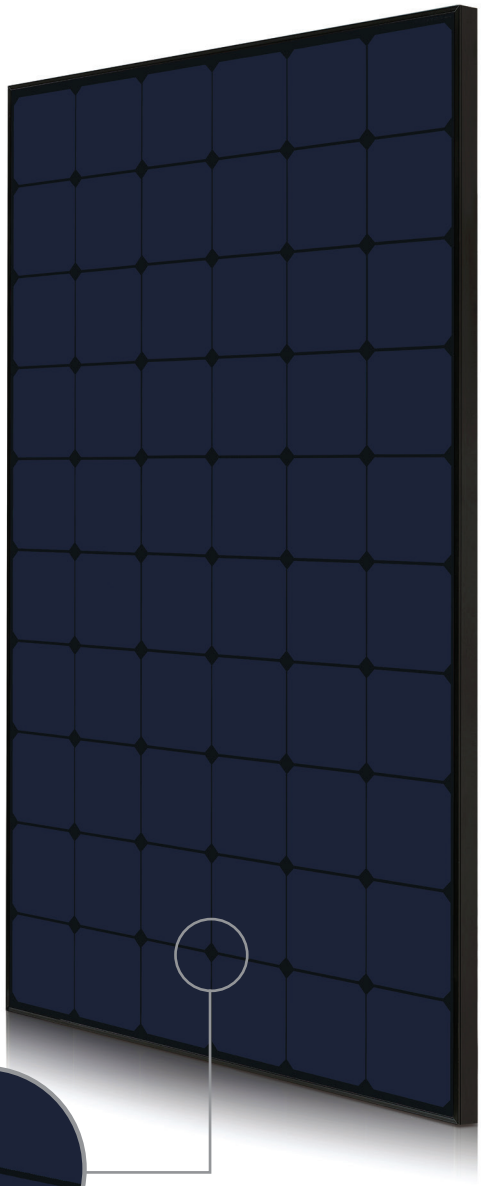
LG NeON®R Prime

The LG NeON®R Prime is one of LG's highest efficiency modules and provides world-class performance. The LG NeON®R Prime applies LG's back-contact cell technology, eliminating electrodes on the front and thereby maximizing light absorption while improving overall performance. With a design that is almost entirely black, the LG NeON®R Prime offers a clean, sleek design.

390W | 385W | 380W | 375W



FEATURES

92.5% in year 25

Enhanced Performance Warranty

LG NeON®R Prime comes with an enhanced performance warranty. After 25 years of use, the LG NeON®R Prime is guaranteed to provide at least 92.5% of initial performance.

25 YEARS WARRANTY

Industry-Leading Product Warranty

LG offers an industry-leading 25 year product warranty on the NeON®R Prime.

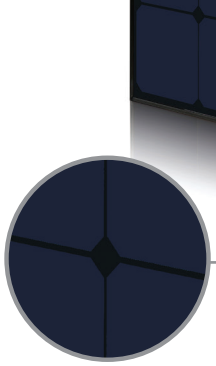
Reliable Quality

LG NeON®R Prime offers reliable and proven quality through rigorous testing*.

Sleek Rooftop Design

The LG NeON®R Prime is designed to make the entire module look black, providing a sleek, modern design that blends in seamlessly with the rooftop.

* LG is subject to rigorous quality verification through PVEL PQP test. The PVEL PQP includes test sequences examining both the reliability and performance characteristics of PV modules.



60cell

DATA VERIFIED BY SOLAR ANALYTICA.

About LG Electronics

LG is transforming today's solar landscape, offering high-efficiency solar panels for customers who demand high performance, reliability and consistently strong energy yield from a brand they can trust. LG's modules feature high power outputs, outstanding durability, appealing aesthetics and high-efficiency technology.

LG Life's Good

LG NeON®R Prime

LG390Q1K-A6.B / LG385Q1K-A6.B / LG380Q1K-A6.B / LG375Q1K-A6.B

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)	1,740 x 1,042 x 40 mm
Weight	18.5 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)	1,250 mm x 2 EA
Connector (Type / Maker)	MC4 / Stäubli

Certifications and Warranty

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 : 2011 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Module Fire Performance	Type 2 (UL 61730)
Fire Rating	Class C (UL 790)
Solar Module Product Warranty	25 Years
Solar Module Output Warranty	Linear Warranty*

* 1) First years : 98.5%, 2) After 1st year : 0.25%/year, 3) 92.5% for 25 years

Temperature Characteristics

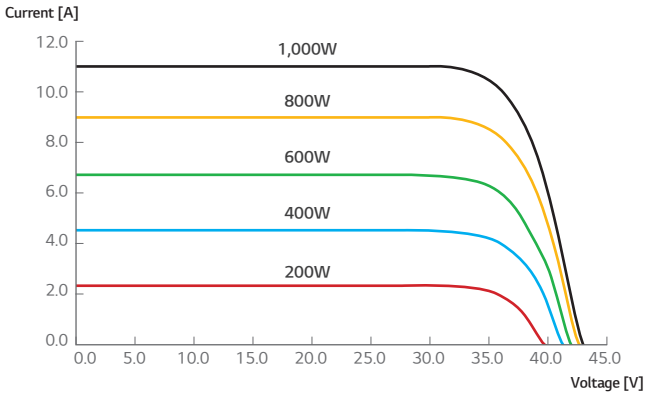
NMOT*	[°C]	44 ± 3
Pmax	[%/°C]	-0.29
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.04

* NMOT (Nominal Module Operating Temperature)
: Irradiance 800W/m², Ambient temperature 20℃, Wind speed 1m/s, Spectrum AM 1.5

Electrical Properties (NMOT)

Model		LG390Q1K-A6.B	LG385Q1K-A6.B	LG380Q1K-A6.B	LG375Q1K-A6.B
Maximum Power (Pmax)	[W]	296	292	288	284
MPP Voltage (Vmpp)	[V]	35.5	35.3	35.1	35.0
MPP Current (Impp)	[A]	8.33	8.26	8.19	8.12
Open Circuit Voltage (Voc)	[V]	41.9	41.7	41.6	41.4
Short Circuit Current (Isc)	[A]	8.77	8.76	8.75	8.74

I-V Curves



Electrical Properties (STC*)

Model		LG390Q1K-A6.B	LG385Q1K-A6.B	LG380Q1K-A6.B	LG375Q1K-A6.B
Maximum Power (Pmax)	[W]	390	385	380	375
MPP Voltage (Vmpp)	[V]	37.5	37.4	37.2	37.0
MPP Current (Impp)	[A]	10.39	10.30	10.21	10.12
Open Circuit Voltage (Voc, ± 5%)	[V]	43.9	43.7	43.5	43.4
Short Circuit Current (Isc, ± 5%)	[A]	10.87	10.86	10.85	10.84
Module Efficiency	[%]	21.5	21.2	21.0	20.7
Power Tolerance	[%]	0 ~ +3			

* STC (Standard Test Condition)
: Irradiance 1,000 W/m², Cell temperature 25°C, AM 1.5, Measure tolerance of Pmax : ±3%

Operating Conditions

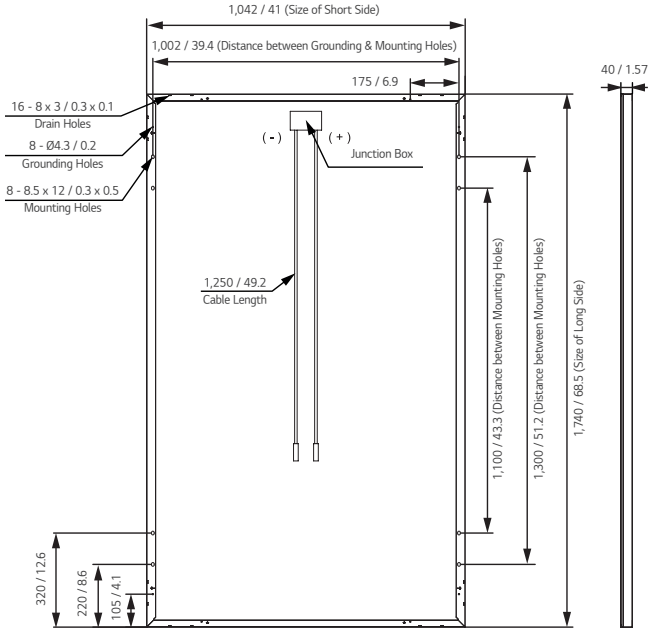
Operating Temperature*	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load** (Front)	[Pa]	5,400
Mechanical Test Load** (Rear)	[Pa]	4,000

* 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.
** Based on IEC 61215-2 : 2016 (Test Load = Design Load 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]	1,790 x 1,120 x 1,213
Packaging Box Gross Weight	[kg]	498

Dimensions (mm/inch)



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