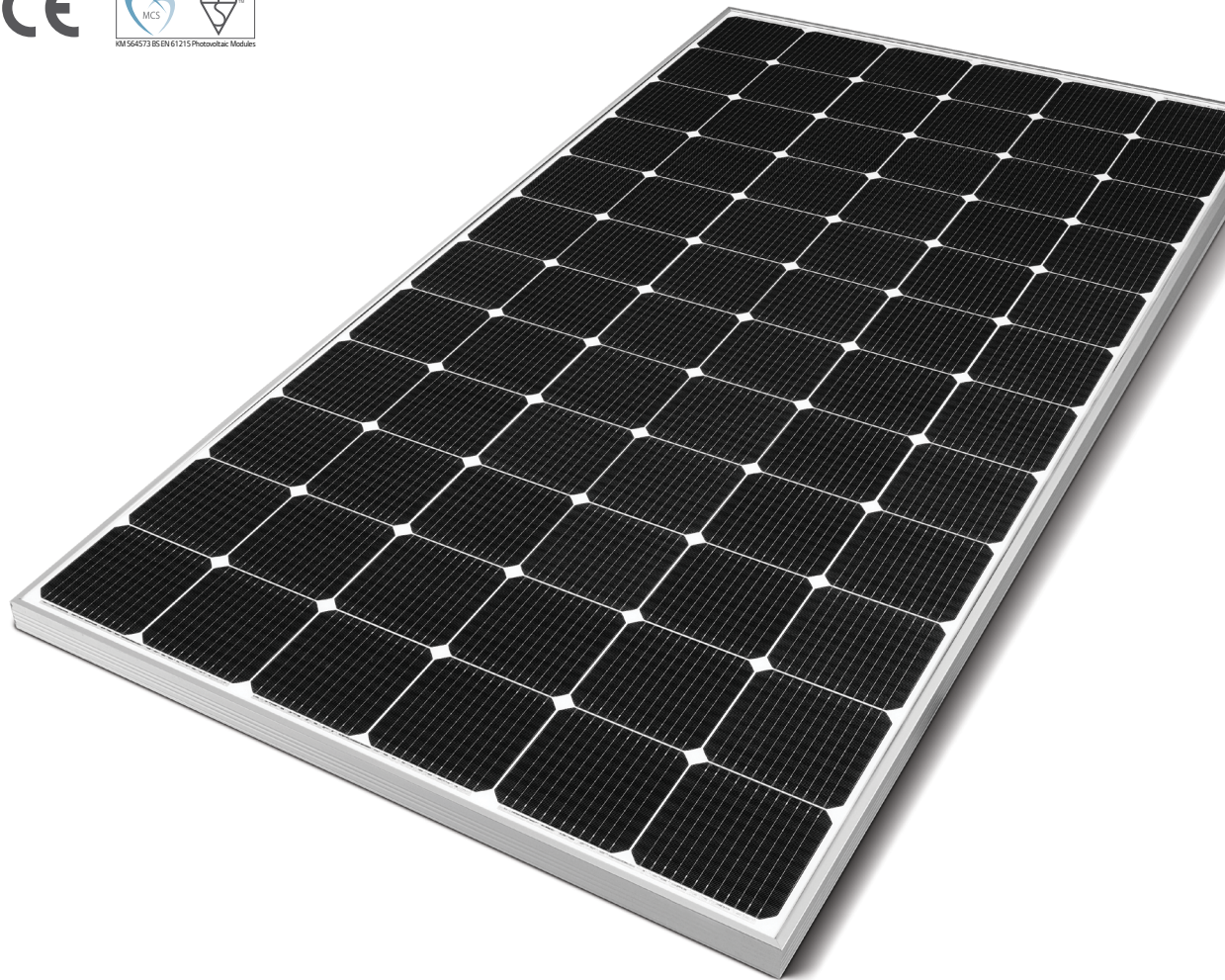


LG NeON[®] 2

72

425W | 420W | 415W | 410W

The LG NeON[®] 2 is LG's best selling solar module, and is one of the powerful and versatile modules on the market today.



Feature



Enhanced Performance Warranty

LG NeON[®] 2 has an enhanced performance warranty. After 25 years, LG NeON[®] 2 is guaranteed to perform at minimum 90.1% of initial performance.



Enhanced Product warranty

Because of the high quality of LG solar panels, LG provides 25 years product warranty to customers.

About LG Electronics

LG Electronics is a global big player, committed to expanding its operations with the solar market. 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 Solar's lead, innovation and commitment to the industry.



LG NeON[®]2

LG425N2W-L5 | LG420N2W-L5 | LG415N2W-L5 | LG410N2W-L5

General Data

Cell Properties(Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	72 Cells (6 x 12)
Number of Busbars	12EA
Module Dimensions (L x W x H)	2,024mm x 1,024mm x 40 mm
Weight	21.5 kg
Glass(Thickness / Material)	2.8mm / Tempered Glass with AR Coating
Backsheet(Color)	White
Frame(Material)	Anodized Aluminium
Junction Box(Protection Degree)	IP 68 with 3 Bypass Diodes
Cables(Length)	1,200 mm x 2EA
Connector(Type / Maker)	MC4 / MC4 Compatible

Certifications and Warranty

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

* First year : 98%, After 1st year : 0.33% annual degradation, 90.1% at 25years

Temperature Characteristics

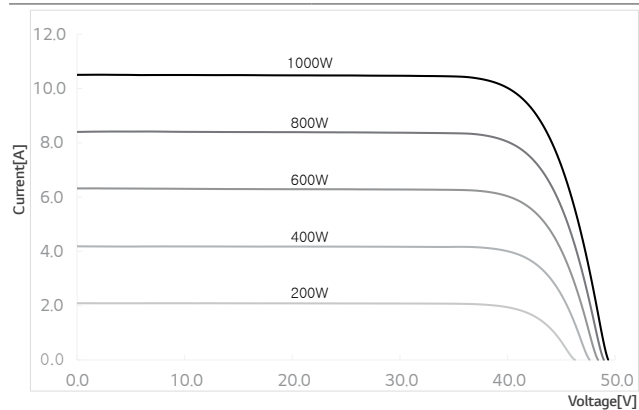
NMOT [†]	[°C]	42 ± 3
Pmax	[%/°C]	-0.35
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.025

* 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		LG425N2W-L5	LG420N2W-L5	LG415N2W-L5	LG410N2W-L5
Maximum Power (Pmax)	[W]	319	315	312	308
MPP Voltage (Vmpp)	[V]	39.9	39.6	39.3	38.9
MPP Current (Impp)	[A]	7.99	7.96	7.93	7.91
Open Circuit Voltage (Voc)	[V]	47.0	46.9	46.8	46.7
Short Circuit Current (Isc)	[A]	8.57	8.54	8.51	8.48

I-V Curves



Electrical Properties (STC*)

Model		LG425N2W-L5	LG420N2W-L5	LG415N2W-L5	LG410N2W-L5
Maximum Power (Pmax)	[W]	425	420	415	410
MPP Voltage (Vmpp)	[V]	42.5	42.1	41.8	41.4
MPP Current (Impp)	[A]	10.01	9.98	9.94	9.91
Open Circuit Voltage (Voc, ±5%)	[V]	49.8	49.7	49.6	49.5
Short Circuit Current (Isc, ±5%)	[A]	10.67	10.63	10.59	10.55
Module Efficiency	[%]	20.5	20.3	20.0	19.8
Power Tolerance	[%]	0 ~ +3			

* STC (Standard Test Condition): Irradiance 1000 W/m², Cell temperature 25 °C, AM 1.5

** Measure Tolerance of Pmax : ±3%

Operating Conditions

Operating Temperature	[°C]	-40 ~ +90
Maximum System Voltage	[V]	1,500(UL), 1000(IEC)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load (Front)	[Pa / psf]	5,400 / 113
Mechanical Test Load (Rear)	[Pa / psf]	3,000 / 63

* Mechanical Test Load 5,400Pa / 3,000Pa 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]	550
Packaging Box Dimensions (L x W x H)	[mm]	2,080 x 1,120 x 1,226
Packaging Box Gross Weight	[kg]	551

Dimensions (mm / inch)

