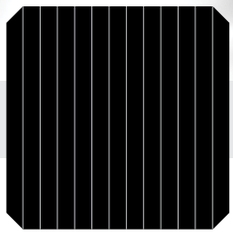
LG NeON®2

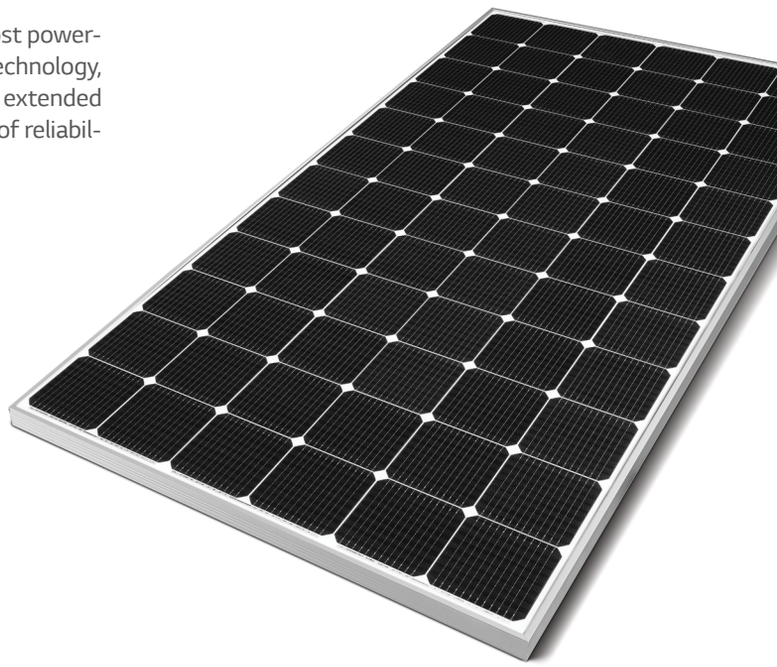


72

425W | 420W | 415W | 410W

The LG NeON® 2 is LG's best selling solar module, and is one of the most powerful and versatile modules on the market today. Featuring LG's Cello Technology, the LG NeON® 2 increases power output. New updates include an extended performance warranty to 90.08% to give customers a greater sense of reliability and peace of mind.

In Progress



Feature

Enhanced Performance Warranty

LG NeON® 2 has an enhanced performance warranty. After 25 years, LG NeON® 2 is guaranteed to perform at minimum 90.08% of initial performance.

Enhanced Product warranty

LG has extended the warranty of the NeON® 2 to 25 years, which is among the top of industry standards.

Better Performance on a Sunny Day

LG NeON® 2 now performs better on sunny days, thanks to its improved temperature coefficient.

BOS (Balance Of System) Saving

LG NeON® 2 can reduce the total number of strings due to its high module efficiency resulting in a more cost effective and efficient solar power system.

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-V5 | LG420N2W-V5 | LG415N2W-V5 | LG410N2W-V5

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	20.3 kg
Glass(Material)	Tempered Glass with AR Coating
Backsheet(Color)	White
Frame(Material)	Anodized Aluminium
Junction Box(Protection Degree)	IP 68
Cables(Length)*	1,200 mm x 2EA
Connector(Type / Maker)	MC4 Compatible

* Including connector

Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2:2016, IEC 61730-1/2:2016, 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)
Solar Module Product Warranty	25 Years
Solar Module Output Warranty	Linear Warranty*

* 1) First year : 98% 2) After 1st year : 0.33% annual degradation 3) 90.08% for 25 years

Temperature Characteristics

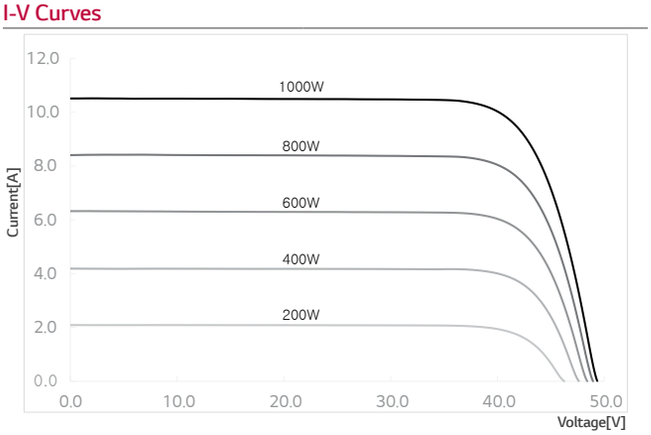
NMOT*	[℃]	42 ± 3
Pmax	[%/℃]	-0.36
Voc	[%/℃]	-0.26
Isc	[%/℃]	0.03

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

Electrical Properties (NMOT)

Model		LG425N2W-V5	LG420N2W-V5	LG415N2W-V5	LG410N2W-V5
Maximum Power (Pmax)	[W]	319	315	311	307
MPP Voltage (Vmpp)	[V]	39.9	39.6	39.3	38.9
MPP Current (Impp)	[A]	7.97	7.95	7.92	7.89
Open Circuit Voltage (Voc)	[V]	47.0	46.9	46.8	46.7
Short Circuit Current (Isc)	[A]	8.58	8.55	8.52	8.48

I-V Curves



Electrical Properties (STC*)

Model		LG425N2W-V5	LG420N2W-V5	LG415N2W-V5	LG410N2W-V5
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 ℃, AM 1.5

** Measure Tolerance of Pmax : ±3%

Operating Conditions

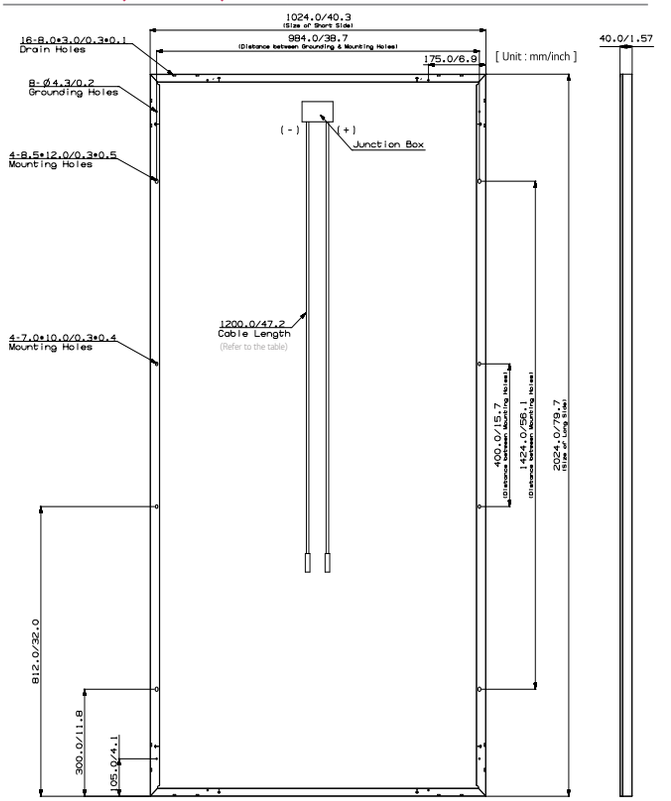
Operating Temperature	[℃]	-40 ~ +90
Maximum System Voltage	[V]	1,500(UL), 1000(IEC)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load (Front)	[Pa / psf]	5,400 / 113
Mechanical Test Load (Rear)	[Pa / psf]	3,000 / 63

※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)



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Product specifications are subject to change without notice.
DS-V5-72-W-G-F-EN-90806