

LG NeON[®] 2

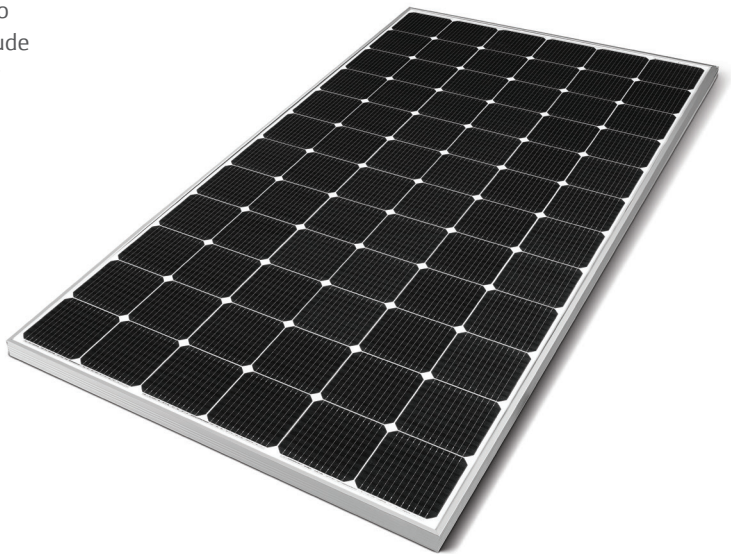
LG415N2W-L5



72

415W

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 higher performance and reliability.



Features



Enhanced Performance Warranty

LG NeON[®] 2 has an enhanced performance warranty. After 25 years, LG NeON[®] 2 is guaranteed at least 90.08% of initial performance.



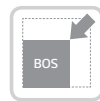
25-Year Limited Product Warranty

The NeON[®] 2 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.



Solid Performance on Hot Days

LG NeON[®] 2 performs well on hot days due to its low 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.



Bifacial Energy Yield

LG NeON[®] 2 modules use a highly efficient bifacial solar cell, "NeON" applied Cello technology for better energy production than standard monofacial PV module.

When you go solar, ask for the brand you can trust: LG Solar

About LG Electronics USA, Inc.

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. 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's leadership and innovation in the solar industry.



LG415N2W-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 (Material)	2.8mm/Tempered Glass with High Transmission Anti-Reflective Coating
Backsheet (Color)	White
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68
Cables (Length)*	1,200mm 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, UL161730
	ISO 9001, ISO 14001, ISO 50001
	OHSAS 18001
Salt Mist Corrosion Test	IEC 61701:2012 Severity 6
Hail Test	35mm (1.38") diameter at 27.2m/s (60.8mph)
Ammonia Corrosion Test	IEC 62716:2013
Module Fire Performance	Type 1 (UL161730)
Fire Rating	Class C (UL 790, ULC/ORD C 1703)
Solar Module Product Warranty	25 Year Limited
Solar Module Output Warranty	Linear Warranty*

*Improved: 1st year 98%, from 2-24th year: 0.33%/year down, 90.08% at year 25

Temperature Characteristics

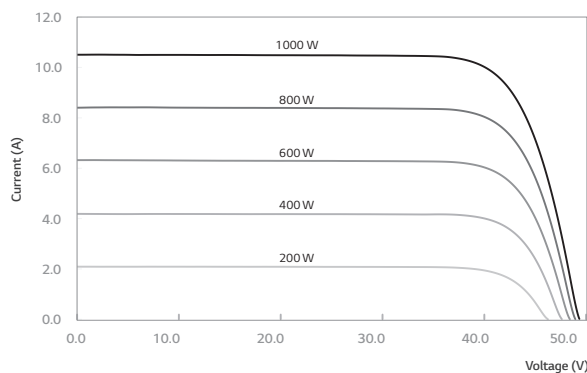
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.35
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.025

*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	LG415N2W-L5	
Maximum Power (Pmax)	[W]	312
MPP Voltage (Vmpp)	[V]	39.3
MPP Current (Impp)	[A]	7.93
Open Circuit Voltage (Voc)	[V]	46.8
Short Circuit Current (Isc)	[A]	8.51

I-V Curves



Electrical Properties (STC*)

Model	LG415N2W-L5	
Maximum Power (Pmax)**	[W]	415
MPP Voltage (Vmpp)	[V]	41.8
MPP Current (Impp)	[A]	9.94
Open Circuit Voltage (Voc, ± 5%)	[V]	49.6
Short Circuit Current (Isc, ± 5%)	[A]	10.59
Module Efficiency	[%]	20.0
Bifaciality Coefficient of Power	[%]	10
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 Loads 5,400 Pa/3,000 Pa 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
Number of Modules per 53ft HQ Container	[EA]	750
Packaging Box Dimensions (L x W x H)	[mm]	2,080 x 1,120 x 1,226
Packaging Box Dimensions (L x W x H)	[in]	82 x 44.25 x 48.25
Packaging Box Gross Weight	[kg]	581
Packaging Box Gross Weight	[lb]	1,281

Dimensions (mm/inch)

