LG NeON[®]2 Black

LG320N1K-V5 | LG325N1K-V5

320W | 325W

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 from 86% to 90.08% to give customers higher performance and reliability.







60

Features



Enhanced Performance Warranty

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



Enhanced Product Warranty

LG has extended the warranty of the NeON® 2 Black to 25 years including labor, which is top level in the industry.



Better Performance on a Sunny Day

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



Roof Aesthetics

LG NeON[®] 2 Black has been designed with aesthetics in mind using thinner wires that appear all black at a distance. LG NeON[®] 2 Black can increase the value of a property with its modern design.

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

About LG Electronics

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.

LG Solar

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General Data

Cell Properties (Material/Type)	Monocrystalline/N-type	
Cell Maker	LG	
Cell Configuration	60 Cells (6 x 10)	
Number of Busbars	12EA	
Module Dimensions (L x W x H)	1,686mm x 1,016mm x 40 mm	
Weight	17.1 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)	1,000 mm x 2EA	
Connector (Type/Maker)	MC 4/MC	

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 62701 : 2012 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Module Fire Performance	Type 2 (UL 1703)
Fire Rating	Class C (UL 790, ULC/ORD C 1703)
Solar Module Product Warranty	25 Years
Solar Module Output Warranty	Linear Warranty*

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

Temperature Characteristics

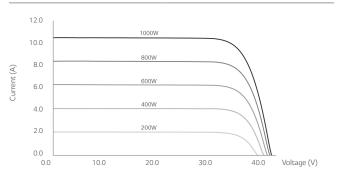
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.36
Voc	[%/°C]	-0.27
lsc	[%/°C]	0.03

* 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		LG320N1K-V5	LG325N1K-V5	
Maximum Power (Pmax)	[W]	239	243	
MPP Voltage (Vmpp)	[V]	31.2	31.5	
MPP Current (Impp)	[A]	7.67	7.69	
Open Circuit Voltage (Voc)	[V]	38.3	38.4	
Short Circuit Current (Isc)	[A]	8.19	8.23	

I-V Curves



Electrical Properties (STC*)

Model		LG320N1K-V5	LG325N1K-V5	
Maximum Power (Pmax) [W]		320	325	
MPP Voltage (Vmpp)	[V]	33.3 33.7		
MPP Current (Impp)	[A]	9.62 9.65		
Open Circuit Voltage (Voc,±5%)	[V]	40.8 40.9		
Short Circuit Current (Isc, ± 5%)	[A]	10.19 10.23		
Module Efficiency	[%]	18.7 19.0		
Power Tolerance	[%]	0-+3		

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

Operating Conditions

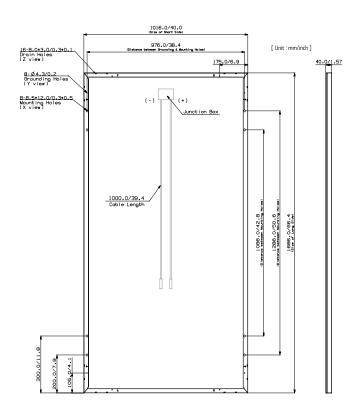
Operating Temperature	[°C]	-40 - +90
Maximum System Voltage	[V]	1,000(UL), 1000(IEC)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load (Front)	[Pa/psf]	5,400/113
Mechanical Test Load (Rear)	[Pa/psf]	4,000/84
* Test Load = Design load X Safety Fac	tor (15)	

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]	1,750 x 1,120 x 1,221
Packaging Box Gross Weight	[kg]	464

Dimensions (mm/inch)



Product specifications are subject to change without notice. LG320-325N1K-V5.pdf





LG Electronics Inc. Solar Business Division 2000 Millbrook Drive Lincolnshire, IL 60069

www.lg-solar.com