

# LG NeON<sup>®</sup>2

LG405N2W-V5

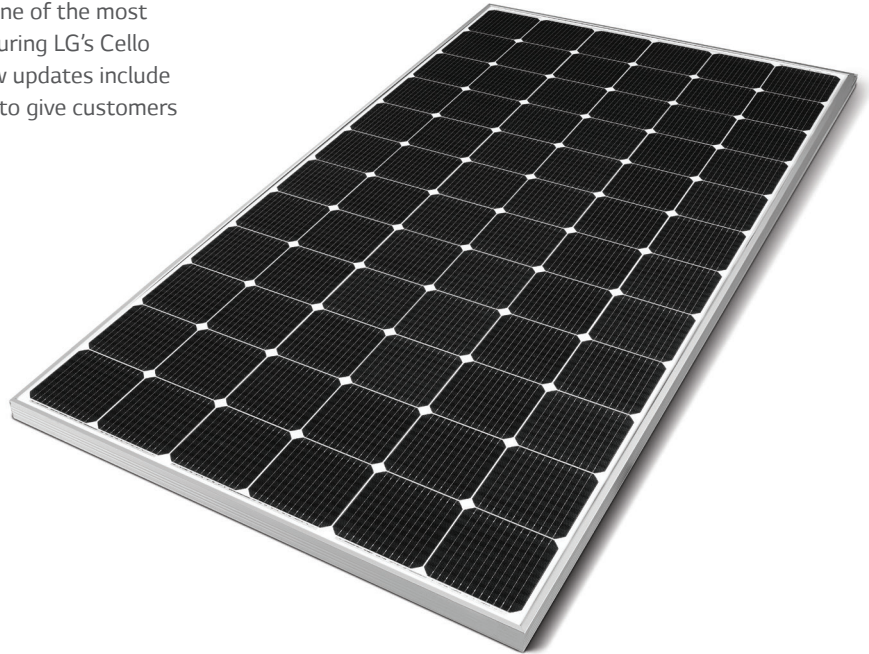


72

## 405W

(Make-To-Order Product)

The LG NeON<sup>®</sup> 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<sup>®</sup> 2 increases power output. New updates include an extended performance warranty from 86% to 90.08% to give customers higher performance and reliability.



## Features



### Enhanced Performance Warranty

LG NeON<sup>®</sup> 2 has an enhanced performance warranty. After 25 years, LG NeON<sup>®</sup> 2 is guaranteed at least 90.08% of initial performance.



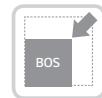
### 25-Year Limited Product Warranty

The NeON<sup>®</sup> 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<sup>®</sup> 2 performs well on hot days due to its low temperature coefficient.



### BOS (Balance Of System) Saving

LG NeON<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> series to the market, which is now available in 32 countries. The NeON<sup>®</sup> (previous MonoX<sup>®</sup> NeON), NeON<sup>®</sup>2, NeON<sup>®</sup>2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.



## LG405N2W-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)	1,200mm 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 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 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

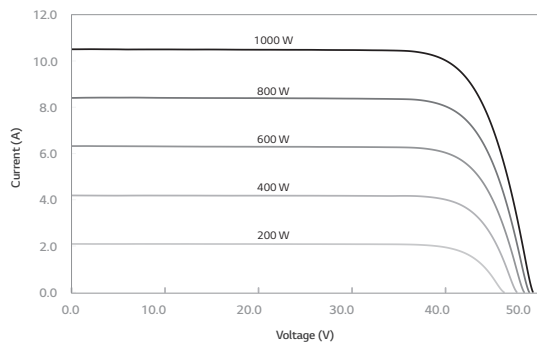
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.36
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.02

\*NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1 m/s, Spectrum AM 1.5

### Electrical Properties (NMOT)

Model	LG405N2W-V5	
Maximum Power (Pmax)	[W]	304
MPP Voltage (Vmpp)	[V]	38.4
MPP Current (Impp)	[A]	7.91
Open Circuit Voltage (Voc)	[V]	46.6
Short Circuit Current (Isc)	[A]	8.44

### I-V Curves



### Electrical Properties (STC\*)

Model	LG405N2W-V5	
Maximum Power (Pmax)	[W]	405
MPP Voltage (Vmpp)	[V]	41.0
MPP Current (Impp)	[A]	9.89
Open Circuit Voltage (Voc, ± 5%)	[V]	49.4
Short Circuit Current (Isc, ± 5%)	[A]	10.51
Module Efficiency	[%]	19.5
Bifaciality Coefficient of Power	[%]	10
Power Tolerance	[%]	0 ~ +3

\*STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM 1.5

### 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

\*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)

