

# LG NeON<sup>®</sup> 2

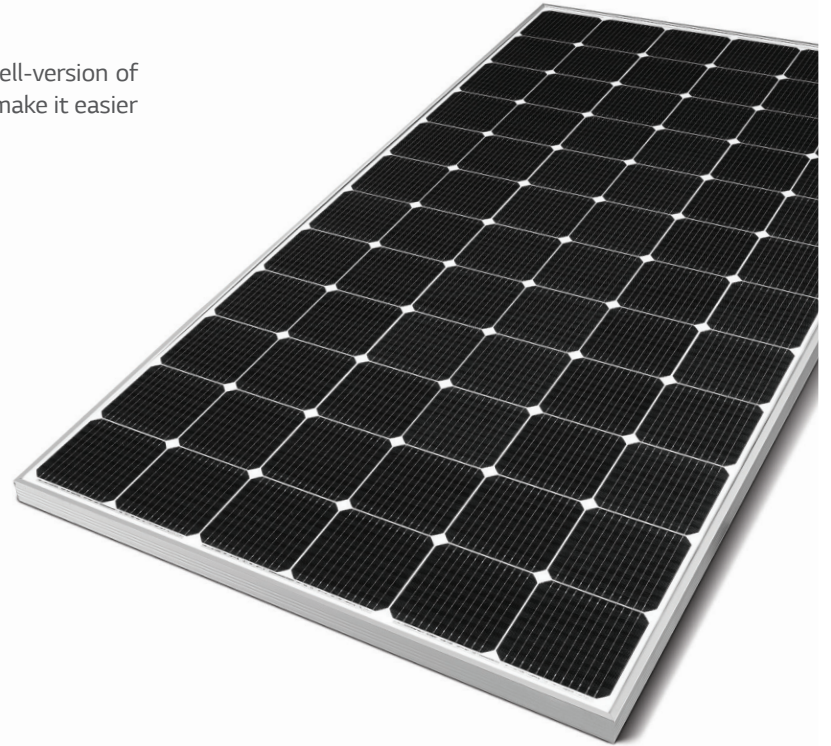
LG400N2W-A5 | LG395N2W-A5 | LG390N2W-A5



72

**400W | 395W | 390W**

The LG NeON<sup>®</sup> 2 is LG's best selling solar module. Especially 72cell-version of the NeON<sup>®</sup> 2 is suited for commercial or utility applications, that make it easier to manage space with maximizing the power of a unit.



## Feature



### 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 84.8% of initial performance.



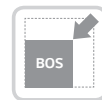
### High Power Output

LG NeON<sup>®</sup> 2 has been designed to significantly enhance its output efficiency making it efficient even in limited space.



### Improved Product Warranty

As well as the enhanced performance warranty, LG has extended the product warranty of the LG NeON<sup>®</sup> 2 for an additional 2 years.



### 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.



### Better Performance on a Sunny Day

LG NeON<sup>®</sup> 2 now performs better on a sunny days thanks to its improved temperature coefficient.



### Near Zero LID (Light Induced Degradation)

The n-type cells used in LG NeON<sup>®</sup> 2 have almost no boron, which may cause the initial performance degradation, leading to less LID.

## 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<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 Solar's lead, innovation and commitment to the industry.



# LG NeON<sup>®</sup> 2

LG400N2W-A5 | LG395N2W-A5 | LG390N2W-A5

## Mechanical Properties

Cells	6 x 12
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
# of Busbar	12 (Multi Wire Busbar)
Dimensions (L x W x H)	2,024 x 1,024 x 40 mm 79.69 x 40.31 x 1.57 in
Front Load	5,400 Pa / 113 psf
Rear Load	4,300 Pa / 90 psf
Weight	21.7 kg / 47.84 lb
Connector Type	MC4 (MC)
Junction Box	IP68 with 3 Bypass Diodes
Cables	1,200 mm x 2 ea / 47.24 in x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

## Certifications and Warranty

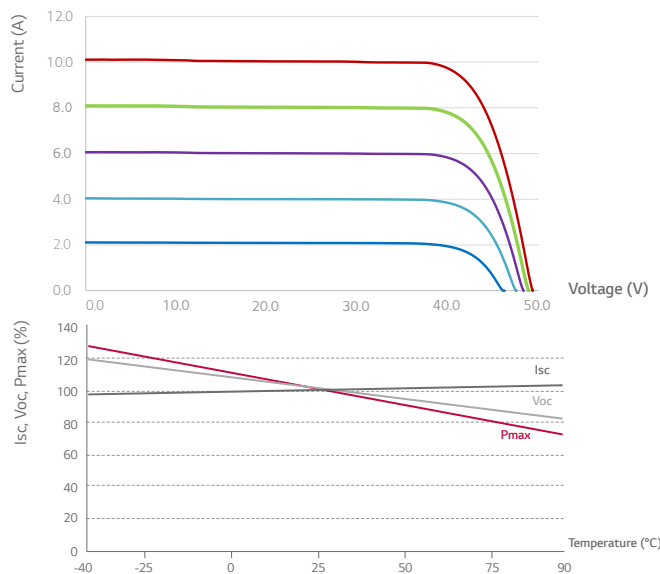
Certifications	IEC 61215, IEC 61730-1/-2
	UL 1703
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
Module Fire Performance	ISO 9001
	Type 1 (UL 1703)
Fire Rating	Class C (ULC/ORD C 1703, IEC 61730)
Product Warranty	12 Years
Output Warranty of Pmax	Linear Warranty*

\* 1) 1st year : 98%, 2) after 1st year : 0.55%p annual degradation, 3) 84.8% for 25 years

## Temperature Characteristics

NOCT	[ °C ]	45 ± 3
Pmax	[%/°C]	-0.36
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.02

## Characteristic Curves



## Electrical Properties (STC\*)

Model		LG400N2W-A5	LG395N2W-A5	LG390N2W-A5
Maximum Power (Pmax)	[W]	400	395	390
MPP Voltage (Vmpp)	[V]	40.6	40.2	39.8
MPP Current (Impp)	[A]	9.86	9.83	9.81
Open Circuit Voltage (Voc)	[V]	49.3	49.2	49.1
Short Circuit Current (Isc)	[A]	10.47	10.43	10.39
Module Efficiency	[%]	19.3	19.1	18.8
Operating Temperature	[°C]	-40 ~ +90		
Maximum System Voltage	[V]	1000 (IEC) / 1500 (UL)		
Maximum Series Fuse Rating	[A]	20		
Power Tolerance	[%]	0 ~ +3		

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

The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

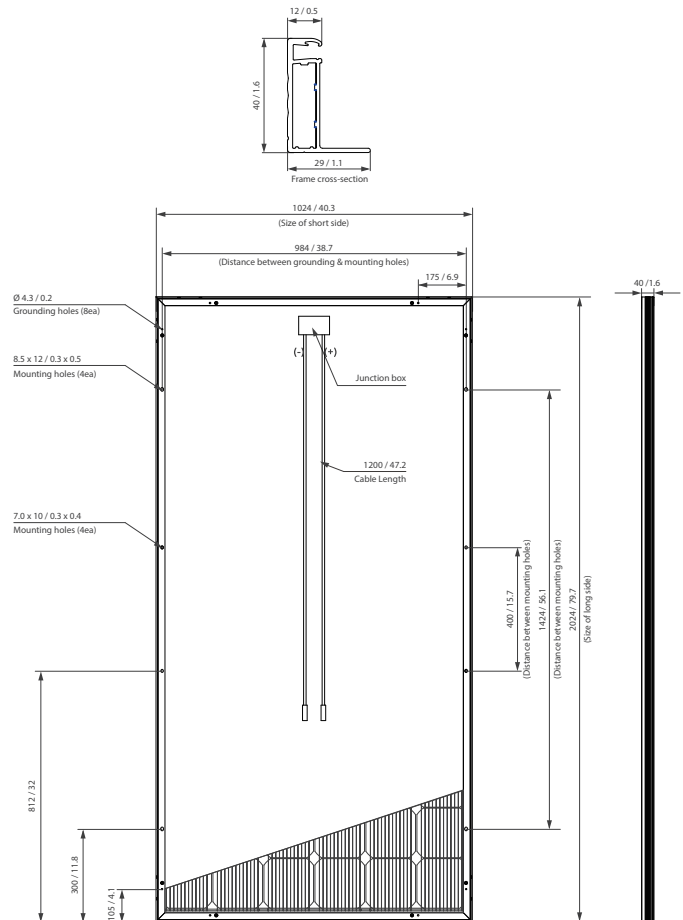
The Typical change in module efficiency at 200 W/m<sup>2</sup> in relation to 1000 W/m<sup>2</sup> is -2.0%.

## Electrical Properties (NOCT\*)

Model		LG400N2W-A5	LG395N2W-A5	LG390N2W-A5
Maximum Power (Pmax)	[W]	296	293	289
MPP Voltage (Vmpp)	[V]	37.6	37.2	36.9
MPP Current (Impp)	[A]	7.88	7.86	7.84
Open Circuit Voltage (Voc)	[V]	46.1	46.0	45.9
Short Circuit Current (Isc)	[A]	8.41	8.38	8.35

\* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s

## Dimensions (mm / inch)



\* The distance between the center of the mounting/grounding holes.



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Product specifications are subject to change without notice.  
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