

## LG NeON<sup>®</sup> 2 72cell

LG390N2W-A5

### 72 cell

LG's NeON<sup>®</sup> 2 module adopts Cello Technology™. Cello Technology™ replaces 3 busbars with 12 thin wires to enhance power output and reliability. The NeON<sup>®</sup> 2 72cell demonstrates LG's efforts to increase customer value through efficiency, enhanced warranties, durability and performance.



#### Enhanced Performance Warranty

LG NeON<sup>®</sup> 2 has an enhanced performance warranty. The annual degradation has fallen from -0.6%/yr to -0.5%/yr. Even after 25 years, the cell guarantees 2.4% more output than the previous LG NeON<sup>®</sup> 2 modules.



#### High Power Output

Compared with previous models, the LG NeON<sup>®</sup> 2 has been designed to significantly enhance its output efficiency, thereby making it efficient even in limited space.



#### Roof Aesthetics

LG NeON<sup>®</sup> 2 has been designed with aesthetics in mind, using thinner wires that appear all black at a distance.



#### Outstanding Durability

With its newly reinforced frame design, LG has extended the warranty of the LG NeON<sup>®</sup> 2 for an additional 3 years. Additionally, LG NeON<sup>®</sup> 2 can endure a front load up to 5400 Pa, and a rear load up to 4300 Pa.



#### Improved Performance on Sunny Days

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



#### Double-Sided Cell Structure

The rear of the cell used in the LG NeON<sup>®</sup> 2 contributes to generation, just like the front; the light beam reflected from the rear of the module is reabsorbed to generate additional power.

#### About LG Electronics

LG Electronics is a global player who has been committed to expanding its operations with the solar market. The company first embarked on a solar energy source research programs 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 Mono X<sup>®</sup> series to the market, which is now available in 32 countries. The LG NeON<sup>®</sup> (previously known as Mono X<sup>®</sup> NeON) and the LG NeON<sup>®</sup> 2 won the "Intersolar Award" in 2013 and 2015, which demonstrates LG Solar's lead, innovations and commitment to the industry.

## 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)	2024 x 1024 x 40 mm 79.69 x 40.31 x 1.57 inch
Front Load	5400Pa
Rear Load	4300Pa
Weight	21.7 kg
Connector Type	MC4
Junction Box	IP68 with 3 Bypass Diodes
Cables	1200 mm x 2 ea
Glass	Tempered Glass with AR Coating
Frame	Anodized Aluminium

## Certifications and Warranty

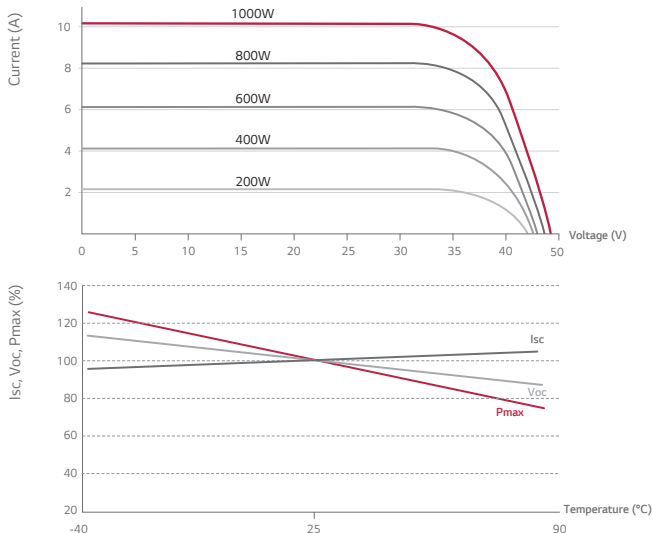
Certifications	IEC 61215, IEC 61730-1/-2 UL 1703 IEC 61701 (Salt mist corrosion test) IEC 62716 (Ammonia corrosion test) ISO 9001
Module Fire Performance (USA)	Type 1
Fire Rating (CANADA)	Class C (ULC / ORD C1703)
Product Warranty	25 years
Output Warranty of Pmax	Linear warranty**

\*\* 1) 1st year : 98%, 2) After 1st year : 0.5% annual degradation, 3) 25 years : 86%

## Temperature Characteristics

NOCT	45 ± 3 °C
Pmpp	-0.36%/°C
Voc	-0.26%/°C
Isc	-0.02%/°C

## Characteristic Curves



## Electrical Properties (STC \*)

Module	390W
Maximum Power (Pmax)	390
MPP Voltage (Vmpp)	39.8
MPP Current (Impp)	9.81
Open Circuit Voltage (Voc)	49.1
Short Circuit Current (Isc)	10.39
Module Efficiency	18.8
Operating Temperature	-40 ~ +90
Maximum System Voltage	1500 (UL)
Maximum Series Fuse Rating	20
Power Tolerance (%)	0 ~ +3

\* STC (Standard Test Condition): Irradiance 1,000 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.

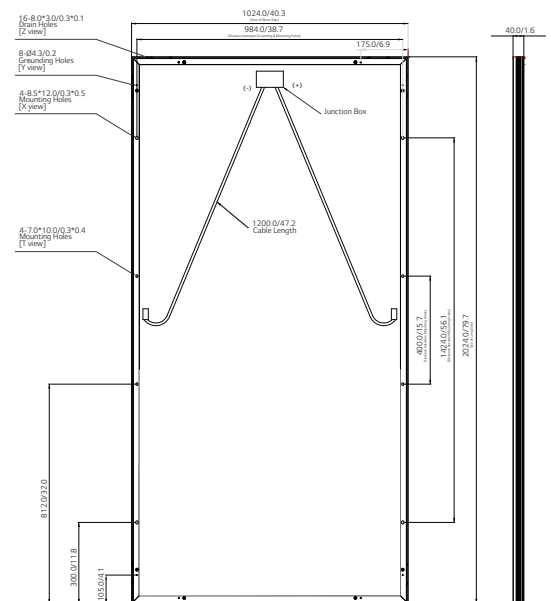
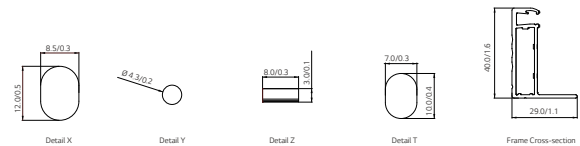
\* The Typical change in module efficiency at 200W/m<sup>2</sup> in relation to 1000W/m<sup>2</sup> is -2.0%.

## Electrical Properties (NOCT\*)

Module	390W
Maximum Power (Pmax)	289
MPP Voltage (Vmpp)	36.9
MPP Current (Impp)	7.84
Open Circuit Voltage (Voc)	45.9
Short Circuit Current (Isc)	8.35

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

## Dimensions (mm/in)



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



North America Solar Business Team  
LG Electronics U.S.A. Inc  
1000 Sylvan Ave, Englewood Cliffs, NJ 07632

Contact: lg.solar@lge.com  
www.lgsolarusa.com

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