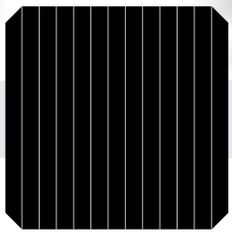
# LG NeON® 2

LG405N2W-A5 | LG400N2W-A5 | LG395N2W-A5 | LG390N2W-A5



72

## 405W | 400W | 395W | 390W

The LG NeON® 2 is LG's best-selling solar module. The 72cell-version of the NeON® 2 is especially suited for commercial or utility applications, as it makes space management easier while maximizing power.

Made in USA From Imported Parts

## Features

### Enhanced Performance Warranty

LG NeON® 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® 2 modules.

### High Power Output

Compared with previous models, the LG NeON® 2 72 cell has been designed to significantly enhance its output efficiency, thereby making it efficient even in limited space.

### Enhanced Product Warranty

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

### Outstanding Durability

LG has extended the warranty of the LG NeON® 2 from 15 years to 25 years, including labor. In addition, LG NeON® 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® 2 now performs better on sunny days, thanks to its improved temperature coefficient.

### Near Zero LID (Light Induced Degradation)

The n-type cells used in LG NeON® 2 have almost no boron. This leads to less LID (Light Induced Degradation) right after installation.

### 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 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 NeON® 2

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## 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 | Tempered Glass with AR Coating |
| Frame | Anodized Aluminium |

* Please refer to the installation manual for the details.

## Certifications and Warranty

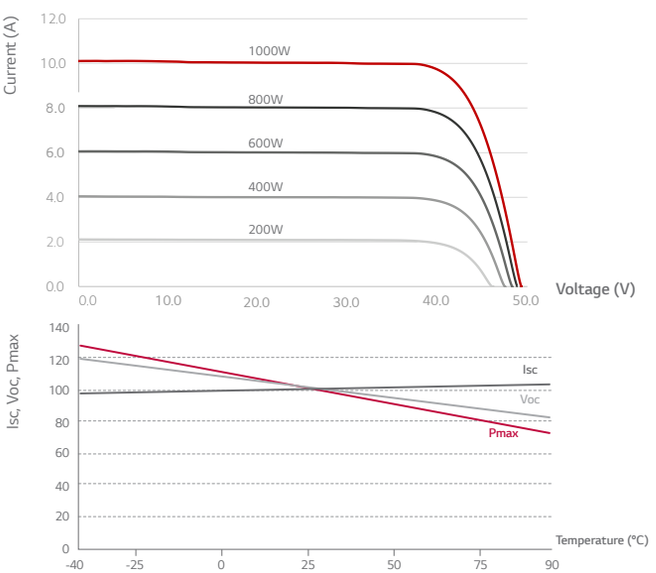
| | |
|---|---|
| Certifications | IEC 61215, IEC 61730-1/-2 |
| | UL 1703 |
| | IEC 61701 (Salt mist corrosion test) |
| | IEC 62716 (Ammonia corrosion test) |
| | ISO 9001 |
| Module Fire Performance | Type 1 (UL 1703) |
| Fire Rating | Class C (ULC/ORD C 1703, IEC 61730) |
| Product Warranty | 25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

* 1) 1st year : 98%, 2) after 1st year : 0.5% annual degradation, 3) 86% 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 | | LG405N2W-A5 | LG400N2W-A5 | LG395N2W-A5 | LG390N2W-A5 |
|---|---|---|---|---|---|
| Maximum Power (Pmax) | [W] | 405 | 400 | 395 | 390 |
| MPP Voltage (Vmpp) | [V] | 41.0 | 40.6 | 40.2 | 39.8 |
| MPP Current (Impp) | [A] | 9.89 | 9.86 | 9.83 | 9.81 |
| Open Circuit Voltage (Voc) | [V] | 49.4 | 49.3 | 49.2 | 49.1 |
| Short Circuit Current (Isc) | [A] | 10.51 | 10.47 | 10.43 | 10.39 |
| Module Efficiency | [%] | 19.5 | 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 | | | |

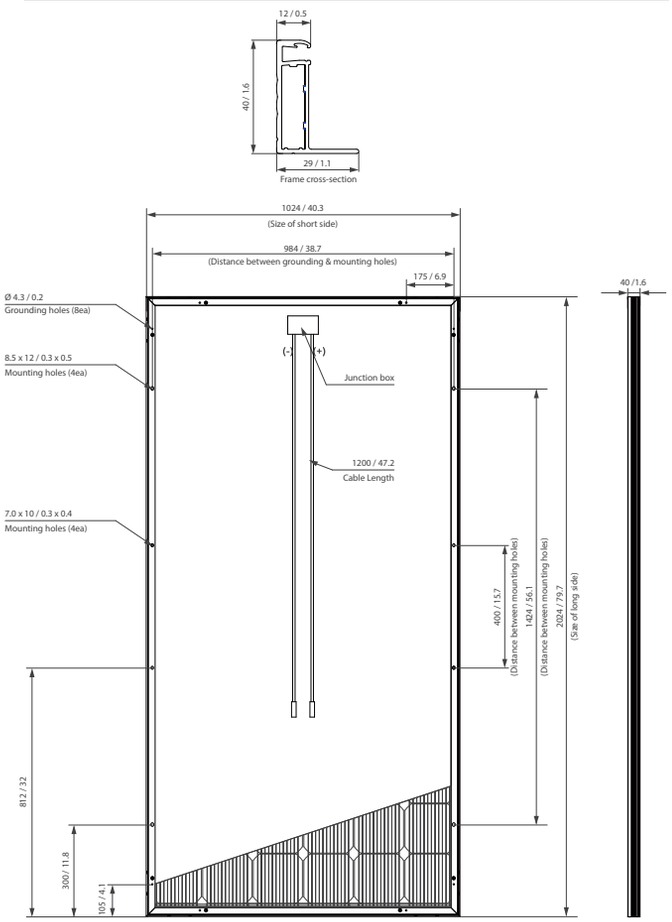
* STC (Standard Test Condition): Irradiance 1000 W/m², cell temperature 25 °C, AM 1.5
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.
The Typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -2.0%.

## Electrical Properties (NOCT*)

| Model | | LG405N2W-A5 | LG400N2W-A5 | LG395N2W-A5 | LG390N2W-A5 |
|---|---|---|---|---|---|
| Maximum Power (Pmax) | [W] | 300 | 296 | 293 | 289 |
| MPP Voltage (Vmpp) | [V] | 38.0 | 37.6 | 37.2 | 36.9 |
| MPP Current (Impp) | [A] | 7.91 | 7.88 | 7.86 | 7.84 |
| Open Circuit Voltage (Voc) | [V] | 46.2 | 46.1 | 46.0 | 45.9 |
| Short Circuit Current (Isc) | [A] | 8.44 | 8.41 | 8.38 | 8.35 |

* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

## Dimensions (mm / inch)




* The distance between the center of the mounting/grounding


LG Life's Good

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Product specifications are subject to change without notice.
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