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Solar Panel Guide Specification Data Sheet

Evolve Energy Group

LG390-400N2W

LG395N2W-A5

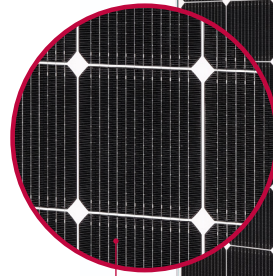
Also available on the web at
EnergyPal.com/evolve-energy-group-solar-panels/lg395n2w-a5

LG NeON[®] 2

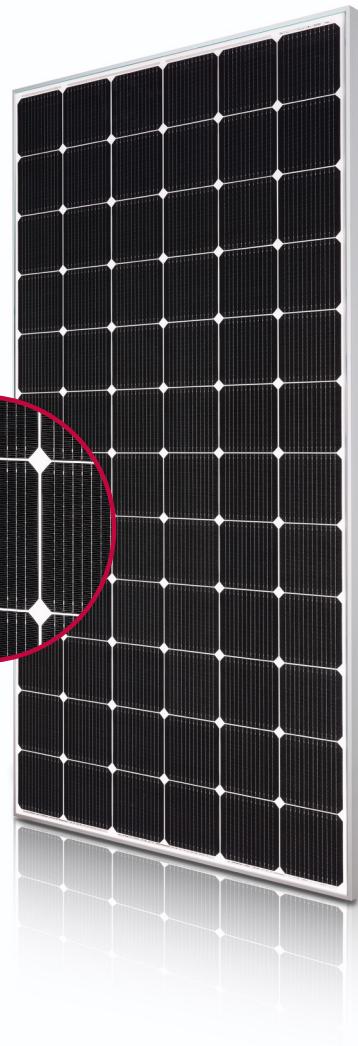
LG400N2W-A5 | LG395N2W-A5
LG390N2W-A5

72 cell

New LG NeON[®] 2 72cell based on Cello technology has become more powerful. Cello technology replaces 3 busbars with 12 thin wires to enhance power output and reliability. NeON[®] 2 72cell demonstrates LG's efforts to increase customer's values beyond efficiency. It features enhanced warranty, durability and performance in a real environment.



Cello Technology



Key Features



Enhanced Performance Warranty

LG NeON[®] 2 has an enhanced performance warranty. After 25 years, LG NeON[®] 2 is guaranteed to be at least 84.8% of initial performance.



Improved Product Warranty

As well as the enhanced performance warranty, LG has extended the product warranty of the LG NeON[®] 2 for an additional 2 years.



Better Performance on a Sunny Day

LG NeON[®] 2 now performs better on a sunny day thanks to its improved temperature coefficient.



High Power Output

LG NeON[®] 2 has been designed to significantly enhance its output efficiency making it efficient even in limited space.



BOS (Balance Of System) Saving

LG NeON[®] 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.



Near Zero LID (Light Induced Degradation)

The n-type cells used in LG NeON[®] 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[®] 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 Solar's lead, innovation and commitment to the industry.

LG400N2W-A5 / LG395N2W-A5 / LG390N2W-A5

LG NeON²

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 in |
| Front Load | 5400 Pa / 113 psf |
| Rear Load | 2400 Pa / 50 psf |
| Weight | 21.7 kg / 47.84 lb |
| Connector Type | MC4 (MC) |
| Junction Box | IP68 with 3 Bypass Diodes |
| Cables | 1200 mm x 2 ea / 47.24 in x 2 ea |
| Glass | High Transmission Tempered Glass |
| Frame | Anodized Aluminium |

Certifications and Warranty

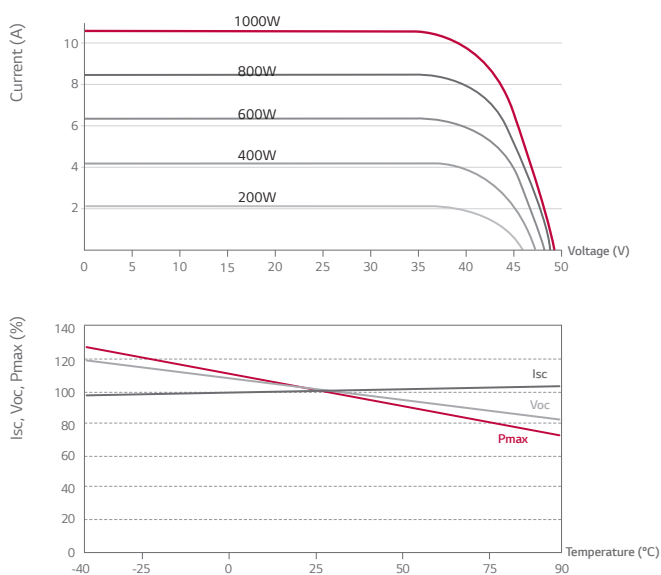
| | |
|-------------------------|--------------------------------------|
| Certifications | IEC 61215, IEC 61730-1/-2 |
| | UL 1703 |
| | IEC 61701 (Salt mist corrosion test) |
| | IEC 62716 (Ammonia corrosion test) |
| | ISO 9001 |
| Module Fire Performance | Type 1 (UL) |
| Fire Rating | Class C |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

* 1) 1st year : 98%, 2) after 2nd 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/m², Module Temperature 25 °C, AM 1.5

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

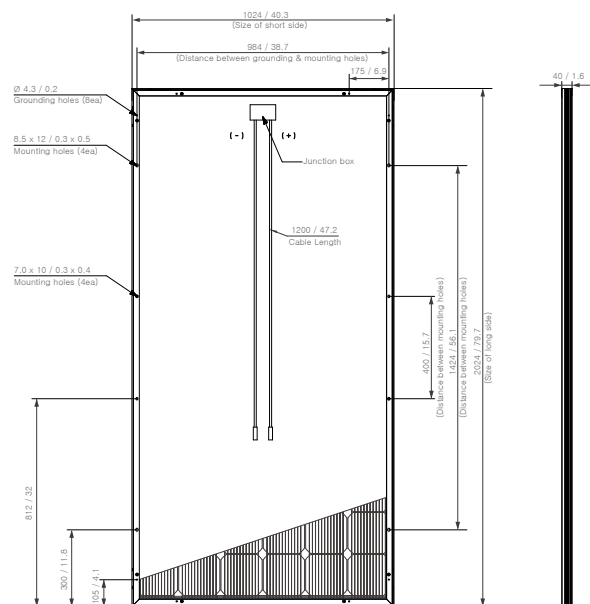
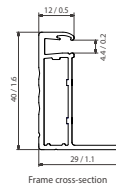
* The Typical change in module efficiency at 200W/m² in relation to 1000W/m² is -2.0%.

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/m², ambient temperature 20 °C, wind speed 1 m/s

Dimensions (mm / inch)



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

