

LG415N2W-V5 : 415W LG NEON2 Solar Module



Price: CAD \$669.00

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Product Categories: [Discontinued](#)

Product Tags: [400w](#), [415w](#), [415w solar](#), [canada](#), [LG](#), [lg 400 watt solar panel](#), [lg 415w solar panel](#), [lg lg415n2w-v5](#), [lg solar](#), [lg solar panel](#), [lg415n2w-v5](#), [lg415n2w-v5 canada](#), [lg415n2w-v5 solar panel](#)

Product Page:

<https://www.modernoutpost.com/product/lg415n2w-v5-415w-lg-neon2-solar-module/>

Product Summary

The new LG415N2W-V5 415W LG Solar Module provides the highest level of power density for residential & commercial solar projects. The new LG NeON® 2 72-cell has seen many improvements, from longer warranties and higher efficiency to lower degradation. This panel is ideal for commercial systems or solar farms seeking an efficient use of space and a high quality panel with great output efficiency.

Product Description

The new LG415N2W-V5 415W LG Solar Module provides the highest level of power density for residential & commercial solar projects. The new LG NeON® 2 72-cell has seen many improvements, from longer warranties and higher efficiency to lower degradation. This panel is ideal for commercial systems or solar farms seeking an efficient use of space and a high quality panel with great output efficiency.

The new NeON® 2 with 72 cells adopts the award winning CELLO Technology replacing 3 busbars in each cell with 12 thin wires to enhance power output. This technology sets a new standard for innovation.

LG415N2W-V5 : 415W LG Solar Module Features

More Power per Square Metre

LG NeON® 2's 415W are a similar physical size to many conventional 360W 72 cell panels. This means with the LG NeON® 2 415W you get 15% more electricity per square metre than a 360W panel. So you can install more kW of solar on your roof with the LG NeON® 2.

Improved High Temperature Performance

Solar panels slowly lose ability to generate power as they get hotter. LG NeON® 2, has an improved temperature co-efficient of $-0.36\%/^{\circ}\text{C}$ to our previous model and to the majority of competitor models which means in high temperatures LG NeON® 2 panels will deliver higher output.

25 Years Product Warranty (Parts & Labour)

LG has extended the product warranty of the LG NeON® 2 by an additional 15 years from industry average 10 to 25 years. This includes coverage for labour and transport.

Improved 25 Year Performance Warranty

The initial degradation of cells has been improved from -3% to -2% , in the 1st year and the annual rate of degradation has fallen from $-0.7\%/year$ to $-0.33\%/year$ thereafter. This brings an 90.08% warranted output at 25 years, compared to 80.2% for many competing panels.

Proven Field Performance

LG has been involved in a number of comparison tests of the LG panels against

many other brand panels. LG NeON® models are consistently among the best performing in these tests.

Additional Certification

LG NeON® 2 panels have received additional certification including for; Salt Mist Corrosion to maximum severity 6. Ammonia Resistance certification and PID Resistance Tests.

Strict Quality Control - Reliable for the Future

The quality control of LG world-class production processes is monitored and improved to Six Sigma quality control standards, which includes 500+ monitoring points to effectively maintain and improve our uncompromising standards.

Multi Anti-reflective Coatings - Increase Output

LG Solar™ is using an anti-reflective coating on the panels glass as well as on the cell surface to ensure more light is absorbed in the panel and not reflected. More absorbed light means more electricity generation.

Installation Time Savings

This NeON® 2 - 72 cell panel can reduce installation time for commercial systems, as there are less panels required eg. to install a 3.6 MW system one would need 8,675 LG415W instead of 10,000 of a 360W - 72 cell panel. There will also be significant savings in design, transport, labour, rails and cabling and 13% less space required.

“CELLO” Technology Increases Power

“CELLO” Multi wire busbar cell technology lowers electrical resistance and increases panel efficiency, giving more power per panel and provides a more uniform look to the panel.

Low LID

The N-type doping of the NeON® cells results in extremely low Light Induced Degradation (LID) when compared with the standard P-type cells. This means more electricity generation over the life of the panel as the panel degrades less.

Extensive Testing Programme

LG solar panels are tested up to 2 times the International Standards at our in-house testing laboratories, ensuring a very robust and longer lasting solar module.

Double-Sided Cell Structure

In conventional panels the cells produce energy from the front only. The NeON® Cell produces energy from both the front as well as the back of the cell. This innovative technology allows the absorption of light from behind the panel which raises the panel's efficiency and electricity output.

Positive Tolerance (0/+3%)

If we sell you a 415 Watt panel then the flash test of this panel will show somewhere between 415W and 427W. Some competitor panels have -/+ tolerance, so you could get a flash test result below the rated Watt, meaning you pay for Watts you never get.

Excellent low light performance

LG NeON 2 panels will give better performance under low light, such as early morning or late afternoon compared to many competing panels.

LG415N2W-V5 Specifications

Maximum Power Pmax (W) : 415

MPP Voltage Vmpp (V) : 41.8

MPP Current Impp (A) : 9.94

Open Circuit Voltage Voc (V) : 49.6

Short Circuit Current Isc (A) : 10.59

Module Efficiency (%) : 20

Operating Temperature (°C) : -40 ~ +90

Maximum System Voltage (V) : 1000

Maximum Series Fuse Rating (A) : 20

Power Tolerance (%) : 0 ~ +3

Cells : 72 (6 x 12)

Cell Vendor : LG

Cell Type : Monocrystalline / N-type

Cell Dimensions : 161.7 x 161.7 mm

of Busbar : 12 (Multi Wire Busbar)

Dimensions (L x W x H) : 2024 x 1024 x 40 mm

Front Load (test) : 5400 Pa

Rear Load (test) : 3000 Pa

Weight : 20.3 kg

Connector Type : Genuine MC4, IP68 (Male: PV-KST4) (Female: PV-KBT4)

Junction Box : IP68 with 3 bypass diodes

Length of Cables : 2 x 1200 mm

Front cover : High transmission tempered glass

Frame : Anodized aluminum (silver colour)

[Download the complete LG415N2W-V5 Spec Sheet\]](#)

Product Attributes

- Dimensions: 1 × 1 × 1 cm
- Weight: 20 kg