



The Star Performer

LG NeON™ 2

LG315/320N1C-G4

UP TO 19.5% MODULE EFFICIENCY



THE NeON™ 2 - THE PANEL OF THE FUTURE AVAILABLE TODAY

The new LG NeON™ 2 has seen many improvements, from longer warranties and higher efficiency to stronger frames and better wind loading. This panel is ideal for homes seeking a visually pleasing solar panel and for roofs where space is tight or where future system expansions are considered e.g. to incorporate battery storage or electric car charging.

The LG NeON™ modules with their double sided cells and CELLO technology absorb light from the front and the back of the module. This technology sets a new standard for innovation and was recognised with the 2015 Photovoltaic Innovation Award at the Intersolar Industry Event in Germany.



Great Visual Appearance

LG NeON™ 2 panels have been designed with appearance in mind. Their black cells, black frames and thinner wires give an aesthetically pleasing uniform black appearance. Your home deserves the LG NeON™ 2.



12 Years Product Warranty (Parts & Labour)

LG has extended the product warranty of the LG NeON™ 2 by an additional 2 years from 10 years to 12 years. This includes coverage for labour and transport.



More Power per Square Metre

LG NeON™ 2's 320W are a similar physical size to many conventional 250W panels. This means with the LG NeON™ 2 320W you get 28% more electricity per square metre than a 250W panel. So you can install more kW of solar on your roof with the LG NeON™ 2.








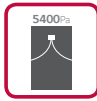






Improved 25 Year Performance Warranty

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 -0.6%/ year thereafter. This brings an 83.6% warranted output after 25 years, compared to 80% for many standard panels.

ABOUT LG ELECTRONICS

LG Electronics embarked on a solar energy research programme in 1985, using our vast experience in semi-conductors, chemistry and electronics. In 2010, LG Solar successfully released its first Mono X® series, and LG Solar modules are now available in 32 countries. In 2013, 2015 and 2016 the LG NeON™ range won the acclaimed Intersolar Award in Germany, which demonstrates LG Solar's lead in innovation and commitment to the renewable energy industry. With over 300 lesser known brands panels selling in Australia, LG solar panels offer a peace of mind solution.

KEY FEATURES

| | |
|--|--|
|  <p>Proven Field Performance</p> <p>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.</p> |  <p>Low LID</p> <p>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.</p> |
|  <p>Additional Certification</p> <p>LG NeON™ 2 panels have received additional certification including for, Salt Mist Corrosion to maximum severity 6. Ammonia Resistance certification and PID Resistance Tests.</p> |  <p>Extensive Testing Programme</p> <p>LG solar panels are tested between 2 to 4 times the International Standards at our in-house testing laboratories, ensuring a very robust and longer lasting solar module.</p> |
|  <p>Strict Quality Control Reliable for the Future</p> <p>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.</p> |  <p>Cyclone Wind Load Resistance</p> <p>LG modules have a strong double walled frame and screwed corners. When it comes to wind forces (rear load) many competitor modules are certified to 2400 Pascals. LG modules are certified to more than double - 5400 Pascals, making them very sturdy and strong.</p> |
|  <p>Multi Anti-reflective Coatings Increase Output</p> <p>LG 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.</p> |  <p>Positive Tolerance (0/+3%)</p> <p>If we sell you a 320 Watt panel then the flash test of this panel will show somewhere between 320W and 329.6W. 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.</p> |
|  <p>Improved High Temperature Performance</p> <p>Solar panels slowly lose ability to generate power as they get hotter. LG NeON™ 2, has an improved temperature co-efficient to our previous model, which means in high temperatures LG NeON™ 2 panels will deliver higher output.</p> |  <p>Anti PID Technology for Yield Security</p> <p>PID (Potential Induced Degradation) affects the long term ability of panels to produce high level electricity output. LG panels have anti PID technology and have been successfully tested by leading third party laboratories regarding PID resistance.</p> |
|  <p>"CELLO" Technology Increases Power</p> <p>"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.</p> |  <p>Fully Automated Production in South Korea</p> <p>All LG solar panels are manufactured in a custom designed and fully automated production line by LG in Gumi, South Korea ensuring extremely low tolerances. This means great consistency between panels.</p> |

LG NeON™ 2 – ENHANCED. MORE EFFICIENT. ADVANCED.

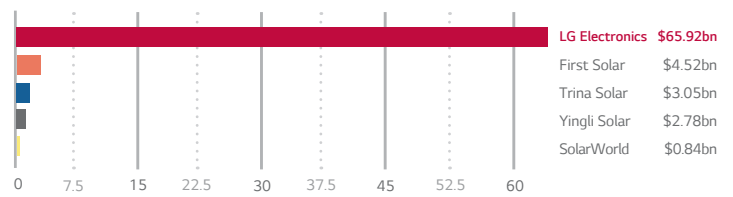
LG NeON™ 2 solar modules now offer even more performance. Featuring a classy new design and with a total of 60 cells, it can withstand a load of 6,000 pascals. LG is extending its product warranty from 10 to 12 years and improving its linear performance guarantee to at least 83.6 % of nominal output after 25 years.

LOCAL WARRANTY, GLOBAL STRENGTH

LG Solar is part of LG Electronics Inc., a global and financially strong company, with over 50 years of experience in technology.

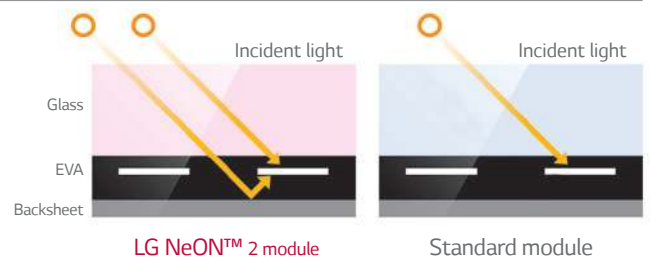
Good to know: LG Electronics Australia Pty Ltd is the warrantor in Australia and New Zealand for your solar modules. So LG support is only a local phone call away.

The warrantor's 2014 sales in billions of Aus dollars



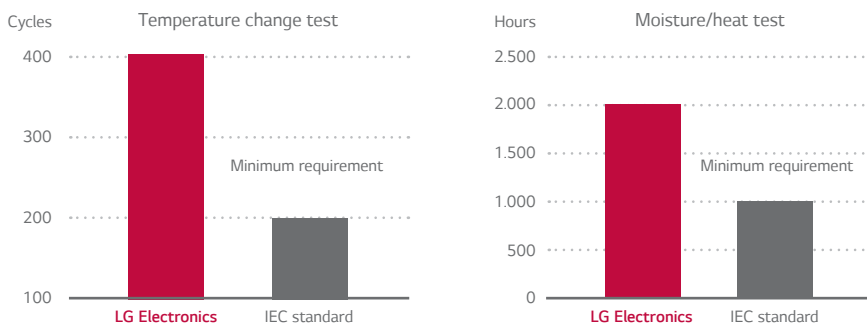
HIGHER OUTPUT, HIGHER YIELD

The NeON™ Cell produces energy from both the front and the back of the cell. This innovative approach allows the absorption of light from the back of the cell which raises the panel's efficiency.



EXCELLENT QUALITY, INDEPENDENTLY TESTED

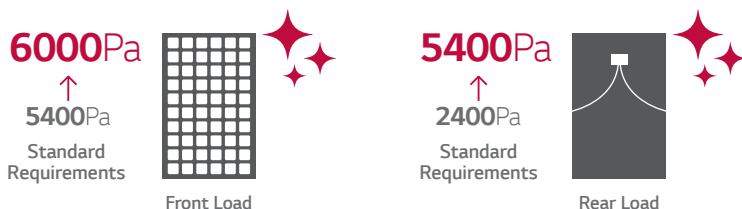
You can rely on LG. We test our products with double the intensity specified in the IEC standard.



Our panels have also won a string of International awards.

POWERFUL DESIGN, GUARANTEED ROBUST

With reinforced frame design, LG NeON™ 2 can endure a front load up to 6000 Pa and a rear load up to 5400 Pa.



Extended Product Warranty

10yrs + 2yrs

LG has also extended the product warranty for parts and labour from an industry average 10 years to an impressive 12 years.

Mechanical Properties

| | |
|------------------------|---|
| Cells | 6 x 10 |
| Cell Vendor | LG |
| Cell Type | Monocrystalline / N-type |
| Cell Dimensions | 156.75 x 156.75 mm |
| # of Busbar | 12 (Multi Wire Busbar) |
| Dimensions (L x W x H) | 1640 x 1000 x 40 mm |
| Front Load | 6000 Pa |
| Rear Load | 5400 Pa |
| Weight | 17.0 ± 0.5 kg |
| Connector Type | Genuine MC4, IP67 |
| Junction Box | IP67 with 3 bypass diodes |
| Length of Cables | 2 x 1000 mm |
| Front cover | High transmission tempered glass |
| Frame | Anodised aluminum with protective black coating |

Certifications and Warranty

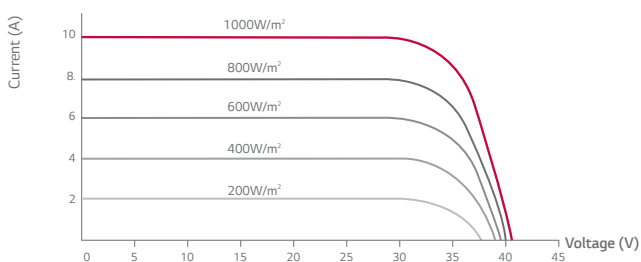
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|--|--------------------------------------|
| Certifications | ISO 9001 |
| | IEC 61215, IEC 61730-1/-2 |
| | 62716 (Ammonia Test) |
| | IEC 61701 (Salt Mist Corrosion Test) |
| Module Fire Rating | Class C |
| Product Warranty | 12 Years |
| Output Warranty of Pmax (Measurement Tolerance ± 3%) | Linear Warranty ¹ |

¹ 1) 1st year: 98%, 2) After 2nd year: 0.6%p annual degradation, 3) 83.6% for 25 years

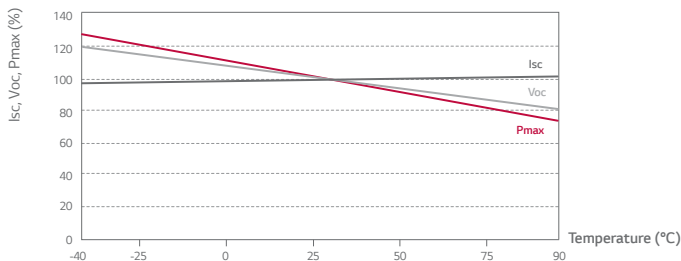
Temperature Characteristics

| | |
|------|------------|
| NOCT | 45 ± 3 °C |
| Pmax | -0.38 %/°C |
| Voc | -0.28 %/°C |
| Isc | 0.03 %/°C |

Current – Voltage characteristics at various irradiance levels



Current – Voltage characteristics at various cell temperatures



Electrical Properties (STC²)

| Module Type | 315 W | 320 W |
|--------------------------------|-----------|-------|
| Maximum Power Pmax (W) | 315 | 320 |
| MPP Voltage Vmpp (V) | 33.2 | 33.6 |
| MPP Current Impp (A) | 9.50 | 9.53 |
| Open Circuit Voltage Voc (V) | 40.6 | 40.9 |
| Short Circuit Current Isc (A) | 10.02 | 10.05 |
| Module Efficiency (%) | 19.2 | 19.5 |
| Operating Temperature (°C) | -40 ~ +90 | |
| Maximum System Voltage (V) | 1000 | |
| Maximum Series Fuse Rating (A) | 20 | |
| Power Tolerance (%) | 0 ~ +3 | |

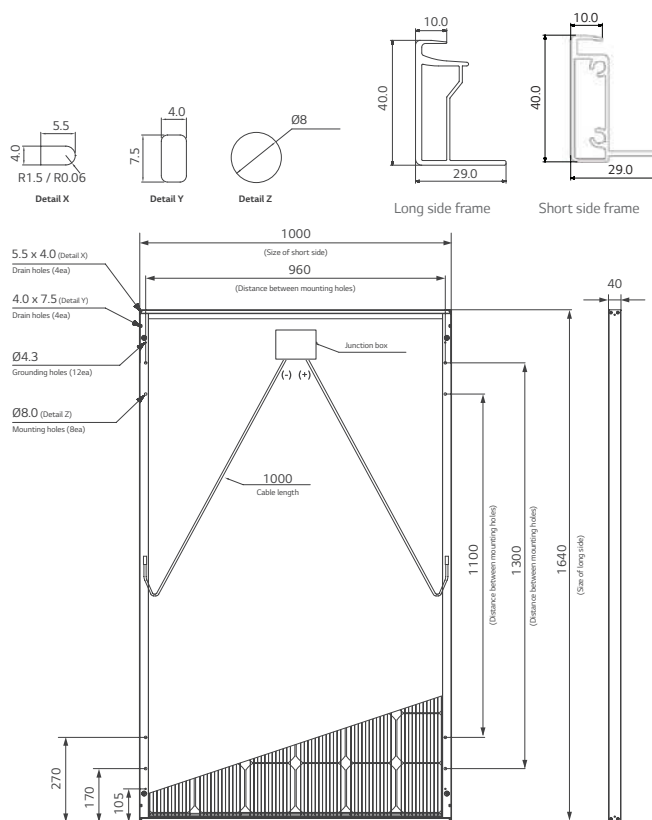
² STC (Standard Test Condition): Irradiance 1000 W/m², Module Temperature 25 °C, AM 1.5. The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion. The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -2.0%.

Electrical Properties (NOCT³)

| Module Type | 315 W | 320 W |
|-------------------------------|-------|-------|
| Maximum Power Pmax (W) | 233 | 236 |
| MPP Voltage Vmpp (V) | 30.7 | 31.1 |
| MPP Current Impp (A) | 7.57 | 7.59 |
| Open Circuit Voltage Voc (V) | 37.7 | 38.0 |
| Short Circuit Current Isc (A) | 8.06 | 8.09 |

³ NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

Dimensions (mm)



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



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Product specifications are subject to change without prior notice.
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