



LG NeON[®] 2

LG 360/365N1C-N5

THE HIGH PERFORMER

UP TO 21.1% MODULE EFFICIENCY

Awards Received By LG Solar[™]



THE NeON[®] 2 - THE PANEL OF THE FUTURE AVAILABLE TODAY

The LG NeON[®] 2 has seen many improvements in the past years, from longer warranties to lower degradation. 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.

The LG NeON[®] 2 panels with their double sided cells and CELLO technology absorb light from the front and the back of the cell. This technology sets a new standard for innovation and was recognised with the Photovoltaic Innovation Award at the Intersolar Industry Event in Germany. LG also won the 2016 Intersolar award for our new NeON BiFacial range.



Great Visual Appearance

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



25 Years Product Warranty (Parts & Labour)

The LG product warranty is many years longer than many competitors standard 10 or 12 years. The Warranty is provided by LG Electronics Australia and New Zealand. The warranty includes replacement, labour and transport.



More Power per Square Metre

LG NeON[®] 2's 365W are a similar physical size to many competing 330W panels. This means with the LG NeON[®] 2 365W you get 10% more electricity per square metre than a 330W 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 the module 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 after 25 years, compared to 80.7% for many competing 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. LG Solar modules are now available in over 50 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. Additionally, LG Solar™ won the Australian Top Brand Award in 2016, 2017, 2018, 2019 and 2020. LG Solar has also been voted WINNER Trusted Brands 2020 - SOLAR PANELS by Reader's Digest from over 3,000 Australian consumers surveyed. With many lesser known brand panels selling in Australia, LG Solar panels offer a peace of mind solution, as they are backed by an established global brand with a long local support history.

KEY ADVANTAGES

- | | |
|---|--|
| <div data-bbox="113 645 209 741" data-label="Image"> </div> <div data-bbox="248 645 563 674" data-label="Section-Header"> <h3>Proven Field Performance</h3> </div> <div data-bbox="248 696 695 853" data-label="Text"> <p>LG has been involved in a number of comparison tests of the LG panels against many other brand panels. LG NeON[®] 2 models are consistently among the best performing in these tests.</p> </div> | <div data-bbox="810 645 906 741" data-label="Image"> </div> <div data-bbox="946 645 1046 674" data-label="Section-Header"> <h3>Low LID</h3> </div> <div data-bbox="946 696 1457 853" data-label="Text"> <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, as the panel degrades less.</p> </div> |
| <div data-bbox="113 898 209 994" data-label="Image"> </div> <div data-bbox="248 898 695 927" data-label="Section-Header"> <h3>LG Corrosion Resistance Certification</h3> </div> <div data-bbox="248 949 751 1072" data-label="Text"> <p>LG NeON[®] 2 panels can be installed confidently right up to the coastline. The panels have received certification for Salt Mist Corrosion to maximum severity 6 and Ammonia Resistance.</p> </div> | <div data-bbox="810 898 906 994" data-label="Image"> </div> <div data-bbox="946 898 1310 927" data-label="Section-Header"> <h3>Extensive Testing Programme</h3> </div> <div data-bbox="946 949 1457 1072" data-label="Text"> <p>LG solar panels are tested at least up to 2 times the International Standards at our in-house testing laboratories, ensuring a very robust and longer lasting solar module.</p> </div> |
| <div data-bbox="113 1117 209 1214" data-label="Image"> </div> <div data-bbox="248 1117 523 1173" data-label="Section-Header"> <h3>Strict Quality Control
Reliable for the Future</h3> </div> <div data-bbox="248 1196 735 1352" data-label="Text"> <p>The quality control of LG world-class solar production is monitored and improved using Six Sigma techniques via 500+ monitoring points to effectively maintain and improve our uncompromising quality.</p> </div> | <div data-bbox="810 1117 906 1214" data-label="Image"> </div> <div data-bbox="946 1117 1453 1146" data-label="Section-Header"> <h3>Improved High Temperature Performance</h3> </div> <div data-bbox="946 1169 1473 1326" data-label="Text"> <p>Solar panels slowly lose ability to generate power as they get hotter. LG NeON[®] 2, has an improved temperature co-efficient to standard modules, which means in hot weather LG NeON[®] 2 panels will deliver higher output.</p> </div> |
| <div data-bbox="113 1393 209 1489" data-label="Image"> </div> <div data-bbox="248 1393 616 1449" data-label="Section-Header"> <h3>Multi Anti-reflective Coatings
Increase Output</h3> </div> <div data-bbox="248 1471 751 1628" data-label="Text"> <p>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.</p> </div> | <div data-bbox="810 1393 906 1489" data-label="Image"> </div> <div data-bbox="946 1393 1278 1422" data-label="Section-Header"> <h3>Positive Tolerance (0/+3%)</h3> </div> <div data-bbox="946 1444 1477 1628" data-label="Text"> <p>If you buy a 365 Watt panel then the flash test of this panel will show somewhere between 365W and 375W. 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> </div> |
| <div data-bbox="113 1668 209 1765" data-label="Image"> </div> <div data-bbox="248 1668 584 1697" data-label="Section-Header"> <h3>High Wind Load Resistance</h3> </div> <div data-bbox="248 1720 727 1843" data-label="Text"> <p>LG panels have a strong double walled frame. When it comes to wind forces (rear load) our panel under test withstood a wind load of 4000 Pascals.</p> </div> | <div data-bbox="810 1668 906 1765" data-label="Image"> </div> <div data-bbox="946 1668 1414 1697" data-label="Section-Header"> <h3>Anti PID Technology for Yield Security</h3> </div> <div data-bbox="946 1720 1497 1877" data-label="Text"> <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> </div> |
| <div data-bbox="113 1917 209 2016" data-label="Image"> </div> <div data-bbox="248 1917 703 1946" data-label="Section-Header"> <h3>"CELLO" Technology Increases Power</h3> </div> <div data-bbox="248 1968 695 2125" data-label="Text"> <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> </div> | <div data-bbox="810 1917 906 2016" data-label="Image"> </div> <div data-bbox="946 1917 1414 1946" data-label="Section-Header"> <h3>Automated Production in South Korea</h3> </div> <div data-bbox="946 1968 1477 2125" data-label="Text"> <p>All LG solar panels sold in Australia and New Zealand are manufactured in a custom designed and fully automated production line by LG in Gumi, South Korea ensuring extremely low tolerances. This means great quality and build consistency between panels.</p> </div> |

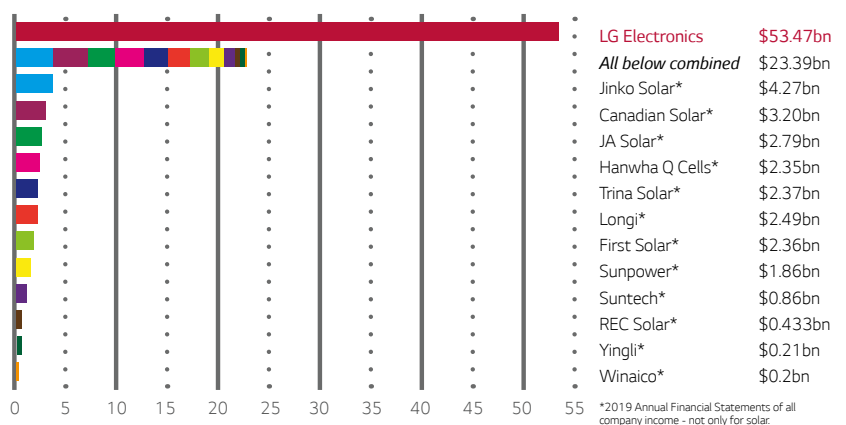
LG NeON[®] 2 – ENHANCED. MORE EFFICIENT. ADVANCED.

LG NeON[®] 2 solar panels now offer even more output. Featuring a classy design and with a total of 60 cells, it can withstand under test a static front panel load of 5400 pascals and rear wind load of 4000 pascals. LG has lengthened its product warranty to 25 years and has improved its linear performance guarantee to 90.08% of nominal output after 25 years. The LG NeON[®] 2 is an excellent choice for high performing long lasting solar systems.

LOCAL WARRANTY, GLOBAL STRENGTH

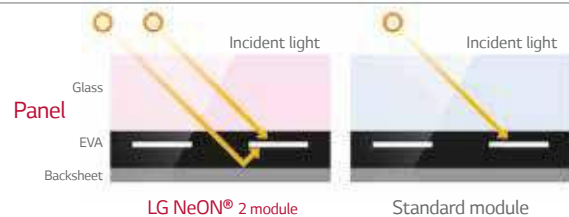
LG Solar™ is part of LG Electronics Inc., a global and financially strong company, with over 50 years of experience in technology. Good to know: LG Electronics Australia Pty Ltd is the warrantor in Australia and NZ for your solar modules. So LG support, via offices in every Australian mainland state and NZ and through our 80 strong, Australia wide dealer network, is only a phone call away, ph 1300 152 179.

The Warrantor's 2019 Sales in Billions of US Dollars*



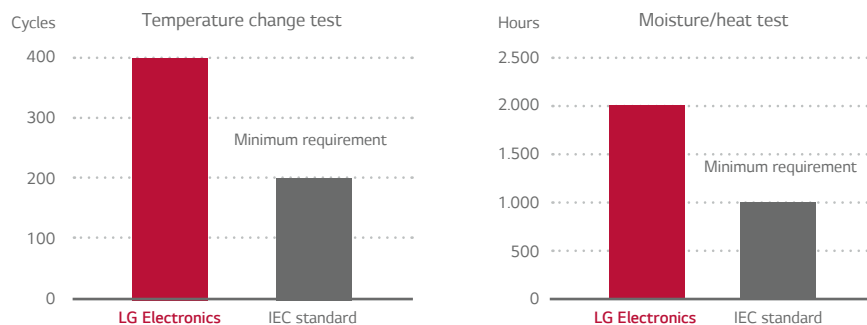
HIGHER OUTPUT, HIGHER YIELD

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 and power output. Standard panels only absorb light from the front.



EXCELLENT QUALITY, THOROUGHLY TESTED

You can rely on LG. We test our products with at least double the intensity specified in the IEC standard. (International Quality Solar Standard).



Awards Received By LG Solar™



Our panel range have won a string of Local and International Awards.

POWERFUL DESIGN, GUARANTEED ROBUST

With reinforced frame design, the LG NeON[®] 2 can under test withstand a front load of 5400 Pa which is the equivalent of 943 kg over the size of the panel. The rear load/wind load of the panel under test is 4000 Pa.



LG offers a 15 year longer product warranty for parts and labour than many competitors 10 years to an impressive 25 years.

10yrs + 15yrs



Mechanical Properties

Cell Configuration	60 Cells (6 x 10)
Cell Maker	LG
Cell Properties	Monocrystalline / N-type
Number of Busbars	12EA
Dimensions (L x W x H)	1700 x 1016 x 40 mm
Front Load (test)	5400 Pa
Rear Load (test)	4000 Pa
Weight	18kg
Connector Type	Genuine MC4, IP68 (Male: PV-KST4) (Female: PV-KBT4)
Junction Box	IP68 with 3 bypass diodes
Length of Cables	2 x 1000 mm
Glass (Material)	Tempered Glass with AR Coating
Frame	Anodised aluminum with protective matt black coating

Certifications and Warranty

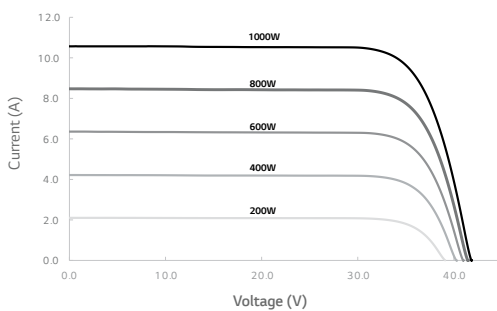
Certifications	ISO 9001, ISO 14001, ISO 50001 IEC 61215-1/-1-1/2:2016, IEC 61730-1/2:2016 OHSAS 18001
Salt Mist Corrosion Test	IEC 61701:2011 Severity 6
Ammonia Corrosion Test	IEC 62716:2013
Fire Rating	Class C (UL 790)
Product Warranty	25 Years
Output Warranty of Pmax (Measurement Tolerance ± 3%)	Linear Warranty ¹

¹ 1) 1st year: 98%, 2) After 1st year: 0.33% annual degradation, 3) 90.08% for 25 years.

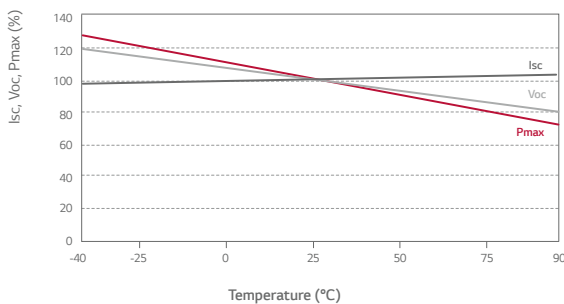
Temperature Characteristics

NMOT	42 ± 3 °C
Pmax	-0.34 %/°C
Voc	-0.26 %/°C
Isc	0.03 %/°C

Current – Voltage characteristics at various irradiance levels



Current – Voltage characteristics at various cell temperatures



Electrical Properties (STC²)

Module Type	LG360N1C-N5	LG365N1C-N5
Maximum Power Pmax (W)	360	365
MPP Voltage Vmpp (V)	35.1	35.5
MPP Current Imp (A)	10.28	10.3
Open Circuit Voltage Voc (V)	41.6	41.7
Short Circuit Current Isc (A)	10.84	10.88
Module Efficiency (%)	20.8	21.1
Operating Temperature (°C)	-40 ~ +90	
Maximum System Voltage (V)	1000 (IEC)	
Maximum Series Fuse Rating (A)	20	
Power Tolerance (%)	0 ~ +3	

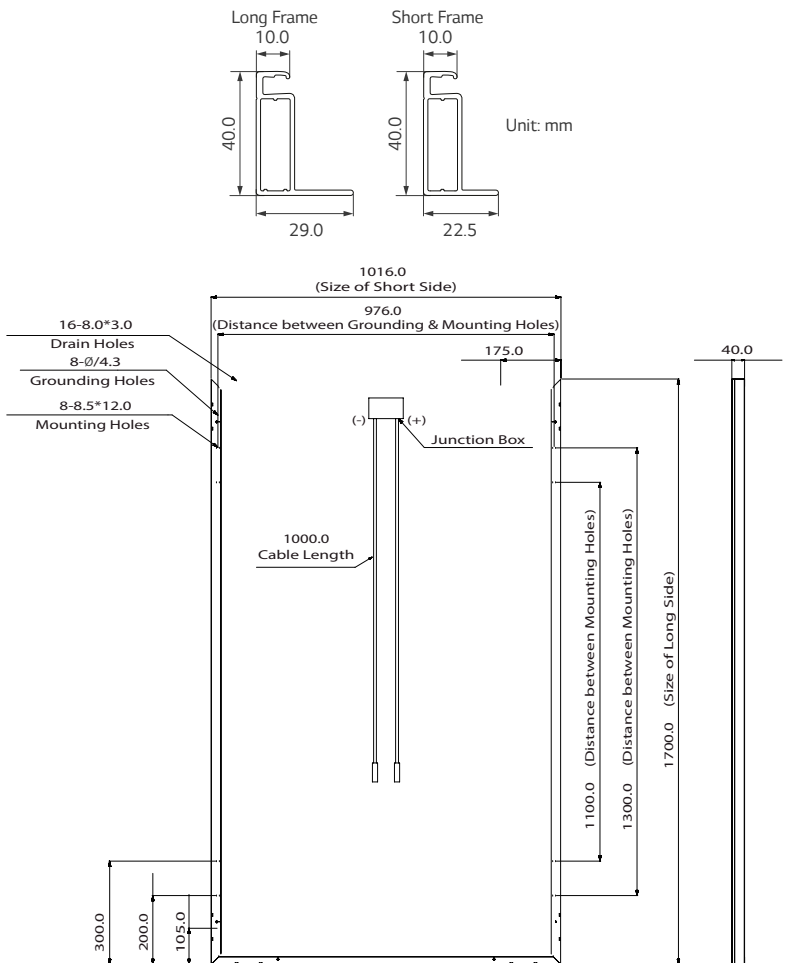
² STC (Standard Test Condition): Irradiance 1000 W/m², Module Temperature 25 °C, AM 1.5. The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NMOT³)

Module Type	LG360N1C-N5	LG365N1C-N5
Maximum Power Pmax (W)	270.2	273.9
MPP Voltage Vmpp (V)	33.0	33.3
MPP Current Imp (A)	8.20	8.21
Open Circuit Voltage Voc (V)	39.2	39.3
Short Circuit Current Isc (A)	8.71	8.74

³ NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s, Spectrum AM 1.5.

Dimensions (mm)



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