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LG NeON[®] 2

LG325/330N1C-A5

THE HIGH PERFORMER

UP TO 19.3% MODULE EFFICIENCY



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

The 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.

The LG NeON[®] modules 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 2015 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.



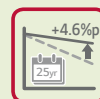
25 Years Product Warranty (Parts & Labour)

The LG product warranty is 15 years longer than many competitors standard 10 years and covers 25 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 330W are a similar physical size to many conventional 270W panels. This means with the LG NeON[®] 2 330W you get 22% more electricity per square metre than a 270W 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 -0.5%/ year thereafter. This brings an 86% warranted output after 25 years, compared to 80.2% for many standard panels.

ABOUT LG SOLAR

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 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 200 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.

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[®] 2 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, as the panel degrades less.</p>
 <p>LG Corrosion Resistance Certification</p> <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>	 <p>Extensive Testing Programme</p> <p>LG solar panels are tested between 2 to 3 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 solar production is monitored and improved using Six Sigma techniques via 500+ monitoring points to effectively maintain and improve our uncompromising quality.</p>	 <p>Extreme Wind Load Resistance</p> <p>LG modules have a strong double walled frame. 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, which provides at least double the strength and durability to a standard module.</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 you buy a 330 Watt panel then the flash test of this panel will show somewhere between 330W and 340W. 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 standard modules, which means in hot weather LG NeON[®] 2 panels will deliver higher output.</p>	 <p>Enhanced low light performance</p> <p>LG NeON 2 panels will give better performance under low light, such as early morning or late afternoon compared to standard panels. At 200W/m² LG Neon 2 panel efficiency drop is -2% while many conventional panels reduce by -4%.</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>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 quality and build consistency between panels.</p>

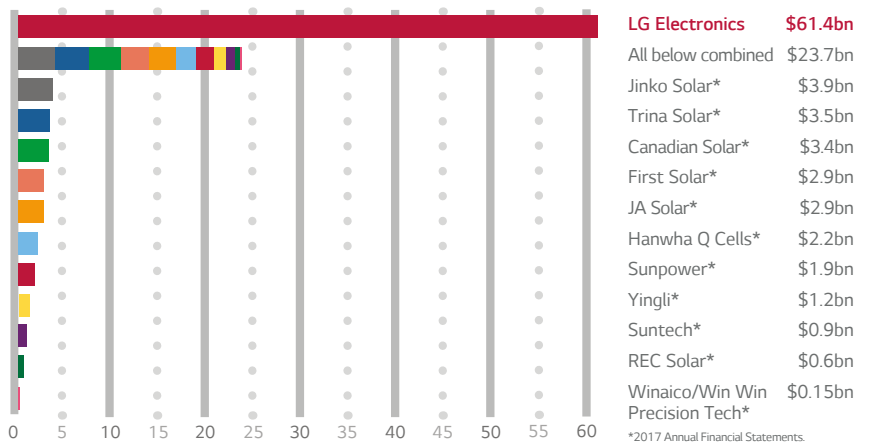
LG NeON[®] 2 – ENHANCED. MORE EFFICIENT. ADVANCED.

LG NeON[®] 2 solar modules now offer even more output. Featuring a classy design and with a total of 60 cells, it can withstand a load of 6,000 pascals. LG has lengthened its product warranty from 10 to 25 years and has improved its linear performance guarantee to 86% 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 70 strong, Australia wide dealer network, is only a phone call away.

The Warrantor's 2017 Global Sales in Billions of US Dollars



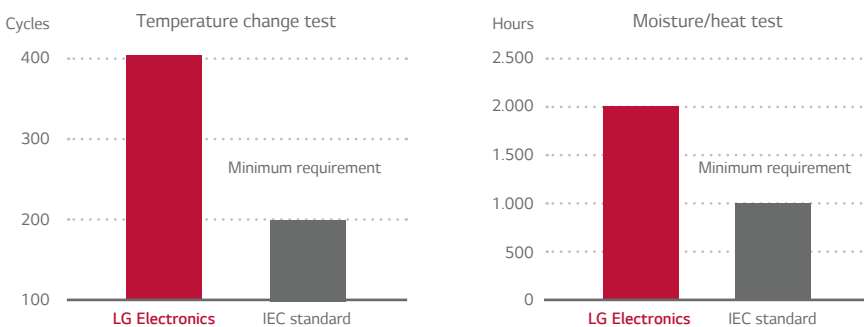
HIGHER OUTPUT, HIGHER YIELD

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

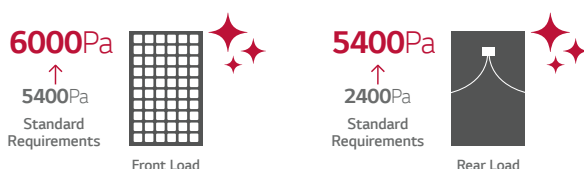
You can rely on LG. We test our products with at least double the intensity specified in the IEC standard. (International Quality Solar Standard).



Our panel range have won a string of International Awards.

POWERFUL DESIGN, GUARANTEED ROBUST

With reinforced frame design, the LG NeON 2 can endure a front load of 6000 Pa which is the equivalent of 1048 kg over the size of the module. The rear load/wind load of the module is 5400 Pa which is more than twice the wind load resistance of standard modules (2400 Pa).



Extended Product Warranty
10yrs + 15yrs

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

Mechanical Properties

Cells	6 x 10
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)	1686 x 1016 x 40 mm
Front Load	6000 Pa
Rear Load	5400 Pa
Weight	18.0 kg
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
Front cover	High transmission tempered glass
Frame	Anodised aluminum with protective black coating

Certifications and Warranty

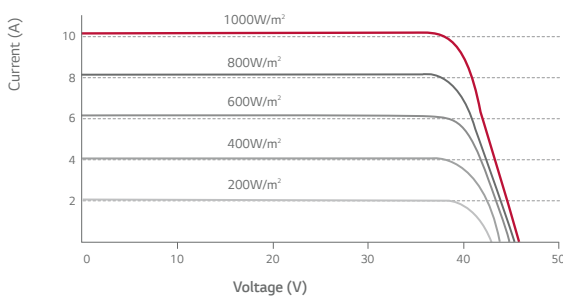
Certifications	ISO 9001
	IEC 61215, IEC 61730-1/-2, UL1703
	IEC 61701 (Salt Mist Corrosion Test)
	IEC 62716 (Ammonia Test)
Module Fire Rating	Class C
Product Warranty	25 Years (Manufactured after 1/10/2017)
Output Warranty of Pmax (Measurement Tolerance ± 3%)	Linear Warranty ¹

¹ 1) 1st year: 98%, 2) After 1st year: 0.5%p annual degradation, 3) 86% for 25 years

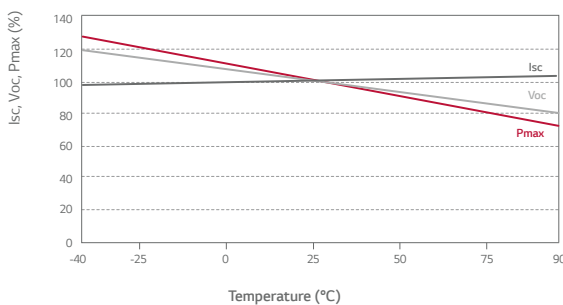
Temperature Characteristics

NOCT	45 ± 3 °C
Pmax	-0.37 %/°C
Voc	-0.27 %/°C
Isc	0.03 %/°C

Current – Voltage characteristics at various irradiance levels



Current – Voltage characteristics at various cell temperatures



Electrical Properties (STC²)

Module Type	325 W	330 W
Maximum Power Pmax (W)	325	330
MPP Voltage Vmpp (V)	33.3	33.7
MPP Current Impp (A)	9.77	9.80
Open Circuit Voltage Voc (V)	40.8	40.9
Short Circuit Current Isc (A)	10.41	10.45
Module Efficiency (%)	19.0	19.3
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.

Electrical Properties (NOCT³)

Module Type	325 W	330 W
Maximum Power Pmax (W)	240	243
MPP Voltage Vmpp (V)	30.8	31.2
MPP Current Impp (A)	7.78	7.81
Open Circuit Voltage Voc (V)	38.0	38.1
Short Circuit Current Isc (A)	8.38	8.41

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

Dimensions (mm)

