



LG Electronics Inc.

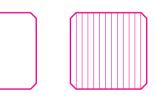
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LG

http://lg-solar.com

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* The contents can be changed without notice.



Innovation for a Better Life



Intro

Technological innovation is paramount for the growth of sustainable renewable energy.

The advancement of solar technology and affordability, combined with increasing public interest and support, has led to exponential growth for the industry.

Because photovoltaic (PV) modules have an average lifespan of 25 years, choosing a well-built product from a trusted brand is important. Through 30 years of diligent solar research and development, LG continuously leads the industry with PV modules that are unparalleled in quality and performance. Thanks to the stability and reputation of its veteran brand, LG is a reliable partner to our solar customers.



Innovation for a Better Life Best Partner for Your Life

Contents

LG SOLAR

Innovation for a Better Life LG SOLAR



Why LG Solar?

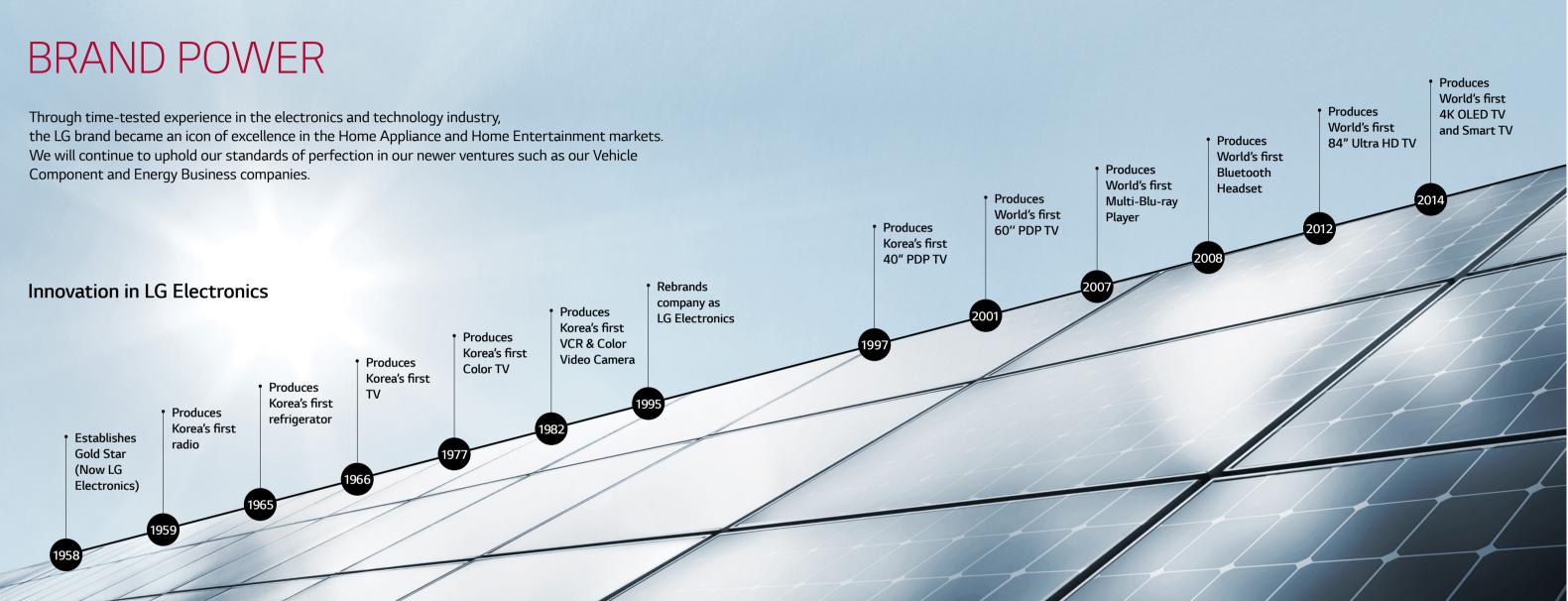
- Brand Power
- Leading Technology
- Quality

LG NeON[®] Series

- LG NeON® R
- LG NeON[®] 2 / LG NeON[®] 2 Black
- LG NeON® 2 BiFacial

Reference

Contact Us



LG Electronics plays an active role in world markets with its assertive global business policy. As a result, LG Electronics controls 118 local subsidiaries worldwide, with roughly 75,150 executives and employees.



LG Smart Energy Solutions

LG has developed a complete energy management system that integrates solar energy production, storage, and control that can be integrated with LG high efficiency appliances.

REVENUE

Workforce

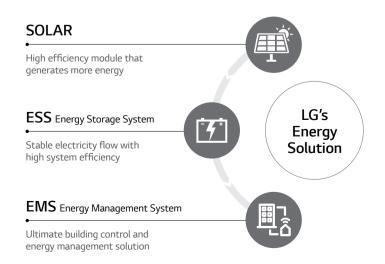
World Presence





 $118_{\rm Global\,Operations}$

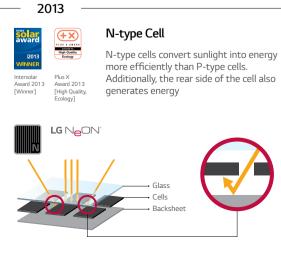
Innovation for a Better Life LG SOLAR

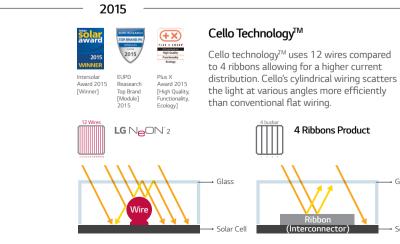




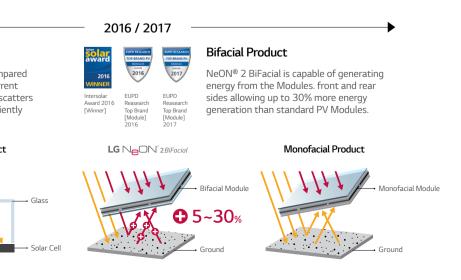
LG Solar Awards & Innovation in Technology







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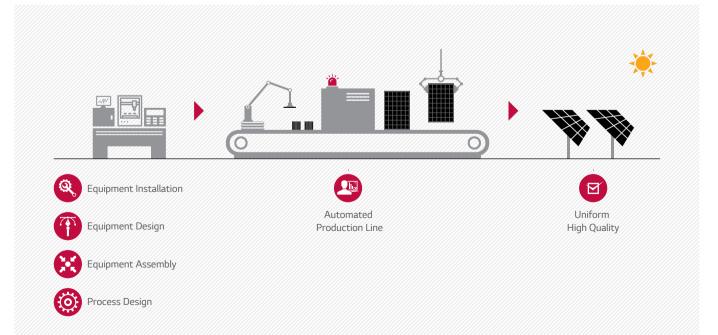
QUALITY

LG has always built innovative, high quality products, and LG modules uphold the same standards. LG PV modules remain robust and efficient in environments with high temperatures or low irradiance. This, combined with a low annual degradation and longer warranty than the market average, ensures LG quality and consumer confidence.

Operational Excellence & Testing Facilities

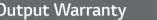
LG PV modules are built on an automated production line in order to maintain the utmost precision and quality, and LG is the first corporation in the world to operate in-house solar testing facilities that are certified by the 4 major inspection and certification authorities.

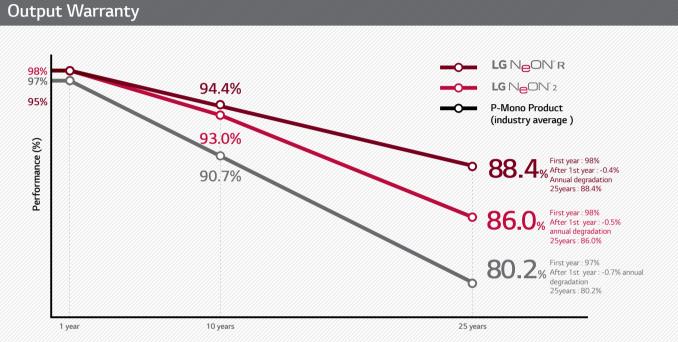


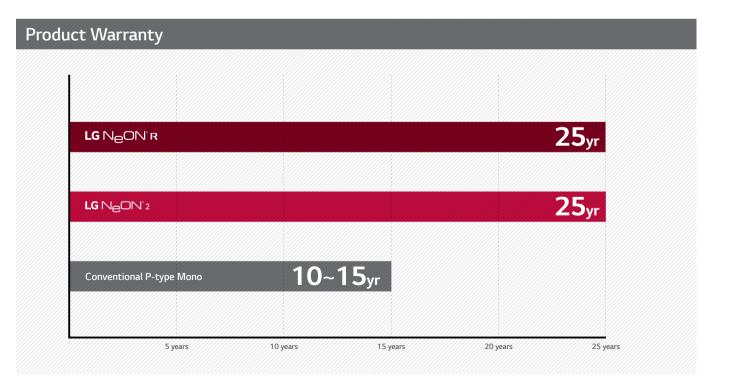


Superior Performance Warranty

LG offers an industry top-level warranty on output and product, providing customers with peace of mind when generating electricity.







The Apex of Solar Generation

The LG NeON[®] R is LG's premier module armed with the highest and most efficient energy generation technology that LG has ever produced. LG NeON® R not only generates the most energy from LG's lineup but is also the most stable in all environmental conditions.

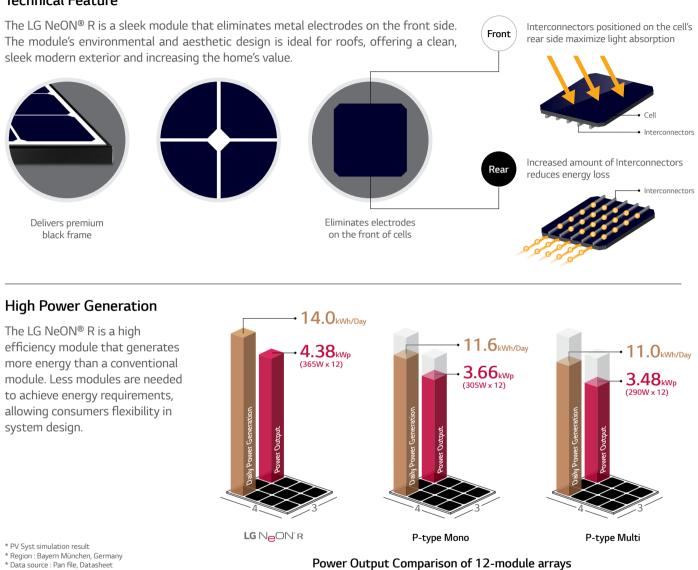


$\bigcirc \blacksquare \bigcirc$ Technical Data

Product Model	LG NeON [®] R 60cell			
Cell Type	Monocrystalline / N-type			
# of Cells	60cell (6 x 10)			
Maximum Power	370W	365W	360W	
Module Efficiency	21.4%	21.1%	20.8%	
Dimensions (L x W x H)	1,700 x 1,016 x 40 mm			
Weight	18.5kg			
Output Warranty of Pmax	Linear Warranty First year : 98%, After 1 st year : 0.4% annual degradation, 25years : 88.4%			
Product Warranty	25years			

\bigcirc Features

Technical Feature





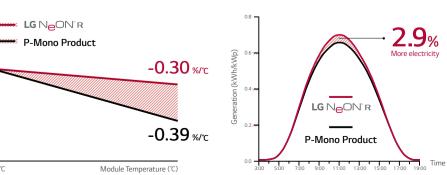
High Temperature Stability

The LG NeON[®] R generates 2.9% more energy than conventional P-type mono modules in high temperature conditions.

* One day in July (Highest temperature in a day : 32°C) * Data source : Pan file, Datasheet

* PV Syst simulation result

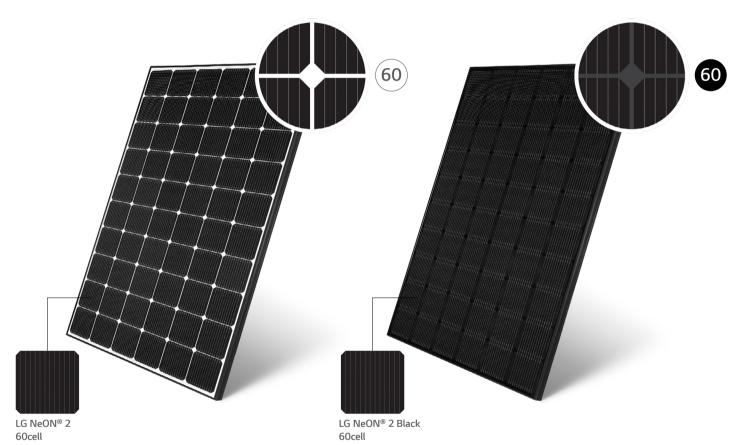
* Region : Bayern München, Germany



$LG N_{e}ON^{\circ} 2 | LG N_{e}ON^{\circ} 2 Black$

LG's Best-selling Module

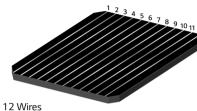
The LG NeON[®] 2 is LG's best-selling solar module. It received the acclaimed 2015 Intersolar AWARD for featuring LG's Cello TechnologyTM which increases its power output and reliability making it one of the most powerful and versatile modules on the market.



$\bigcirc \bigcirc \blacksquare$ Features

Technical Feature

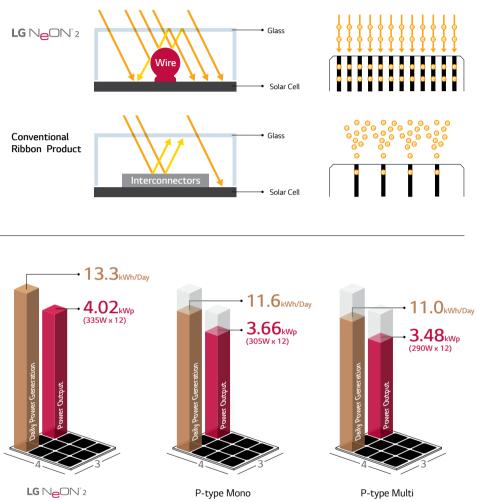




Conventiona

High Power Module

The LG NeON[®] 2 produces more energy than conventional modules allowing energy requirements to be met using less space.



Increased Light Absorption

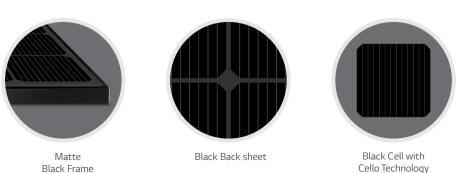
* PV Syst simulation result * Region : Bayern München, Germany * Data source : Pan file, Datasheet

 $\bigcirc \blacksquare \bigcirc$ Technical Data

Product Model LG NeON[®] 2 60cell LG NeON[®] 2 Black 60cell Cell Type Monocrystalline / N-type Monocrystalline / N-type # of Cells 60cell (6 x 10) 60cell (6 x 10) Maximum Power 340W 335W 320W Module Efficiency 19.8% 19.6% 18.7% 1,686 x 1,016 x 40 mm Dimensions (L x W x H) 1,686 x 1,016 x 40 mm Weight 18kg 18kg Linear Warranty Output Warranty of Pmax (First year : 98%, After 1st year : 0.5% annual degradation, 25years : 86%) Product Warranty 25years

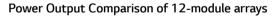
Aesthetic Black module

The LG NeON[®] 2 black is equipped with a sophisticated matte black frame and a complementary black back sheet, and black cells with thin electrodes. This module is perfectly suited to any rooftop.



Black Frame

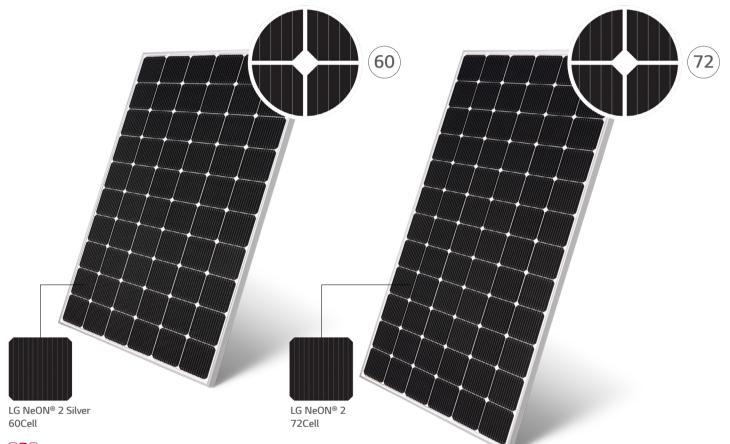
Reduced Electricity Loss



LG N_eON[°] 2

LG's Best-selling Module

The LG NeON[®] 2 is LG's best-selling solar module. It received the acclaimed 2015 Intersolar AWARD for featuring LG's Cello TechnologyTM which increases its power output and reliability making it one of the most powerful and versatile modules on the market.



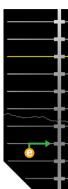
$\bigcirc \blacksquare \bigcirc$ Technical Data

Product Model	LG NeON [®] 2 Silver 60Cell		LG NeON® 2 72Cell	
Cell Type	Monocrystalline / N-type		Monocrystalline / N-type	
* of Cells	60cell (6 x 10)		72cell (6 x 12)	
Maximum Power	335W	330W	400W	395W
Module Efficiency	19.6%	19.3%	19.3%	19.1%
Dimensions (L x W x H)	1,686 x 1,016 x 40 mm		2,024 x 1,024 x 40 mm	
Weight	18kg		21.7kg	
Output Warranty of Pmax	Linear Warranty (First year : 98%, After 1st year : 0.5% annual degradation, 25years : 86%)			
Product Warranty	25years			

$\bigcirc \bigcirc \blacksquare$ Features

Enhanced Long-term Reliablity

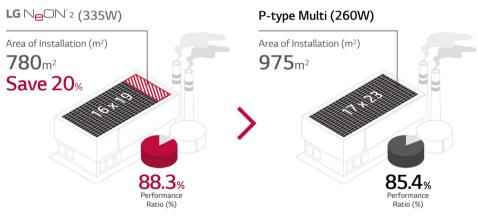
When micro-cracks or finger electrode erosion occurs due to outside factors, LG NeON[®] 2 reduces down performance by blocking the electrical path due to the layout of wires.



High Power Module

The LG NeON[®] 2 produces more energy than Conventional P-type Multi modules allowing energy requirements to be met using less space.

780m² **Save 20**%



* PV Syst simulation result * Region : Bayern München, Germany * Data source : Pan file, Datasheet * Pitch : 5.5m

* The distance between modues in an array : 20mm

Strong Performance in Diverse Environments

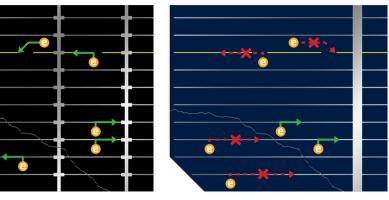
The LG NeON[®] 2 generates 2.7% more energy than P-type Multi modules in high temperature conditions as well as in low irradiation conditions.

* PV Syst simulation result * Region : Bayern München, Germany * One day in July(Highest temperature in a day : 32°C) * Data source : Pan file, Datasheet

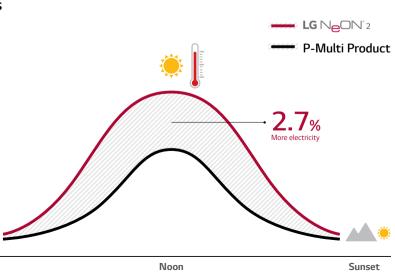


LG N_eON[°] 2

Conventional Ribbon Product



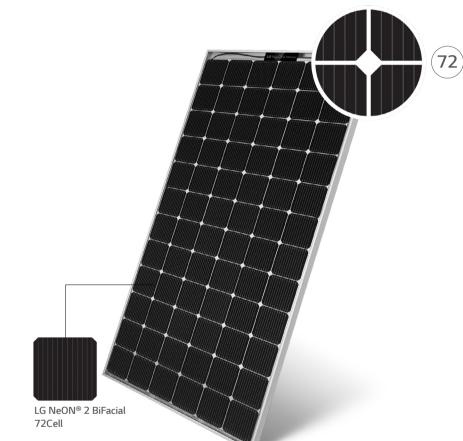
Multiple electrical paths maintained by wires



LG NeON[®] 2BiFacial

Double-sided Generation At Its Best

The LG NeON[®] 2 BiFacial is designed to absorb irradiance not only from the front, but also the rear of its NeON[®] cell by using a transparent back sheet. The dual faces of the cell allow for higher energy generation.



$\bigcirc \blacksquare \bigcirc$ Technical Data

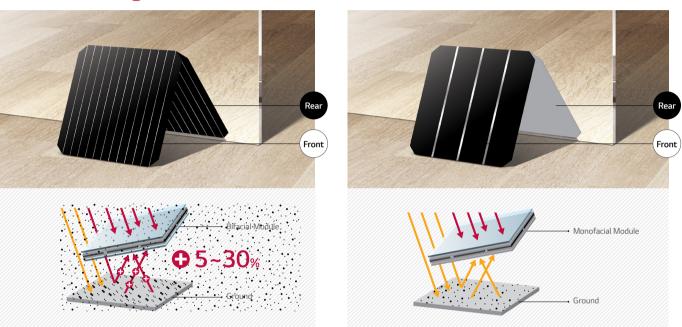
Product Model	LG NeON® 2 BiFacial		
Cell Type	Monocrystalline / N-type		
* of Cells	72cell (6 x 12)		
Maximum Power	395W	390W	
Module Efficiency	18.7%	18.5%	
Dimensions (L x W x H)	2,064 x 1,024 x 40 mm		
Weight	22.1kg		
Output Warranty of Pmax	Linear Warranty (First year : 98%, After 1st year : 0.5% annual degradation, 25years : 86%)		
Product Warranty	25years		

$\bigcirc \bigcirc \blacksquare$ Features

N-type Cell (double-sided generation cell structure)

Using a NeON[®] cell which can generate energy on both sides, LG developed the optimized module for bifacial generation.

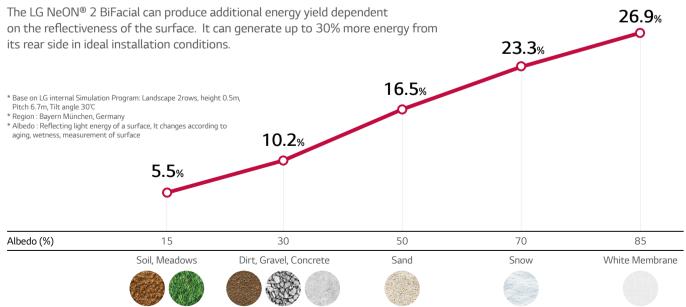
LG $N_e ON^{\circ}$ 2 BiFacial



Additional Energy Yield Based on Ground Type

its rear side in ideal installation conditions.







Conventional Monofacial Product

REFERENCE



USA



Netherland_Venlo

Thailand_Bangkok

Germany_Leipzig

Germany_Grasberg

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Residential

Thailand_Bangkok

Switzerland_Kolliken

REFERENCE

Commercial



Thailand_Bangkok



Australia_Sydney

Japan_Hokkaido

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Utility

USA_Easton

Japan_Aomori

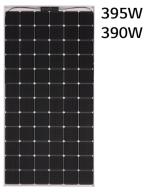
PRODUCT LINE-UP



60Cell



$LG N_{\Theta} O N^{\circ} 2BiFacial$



LG NeON[®] 2 Bifacial 72Cell



LG Solar has conducted continued solar energy research for the last 30 years. By synergizing this research with more than 50 years of experience and knowhow in the electronics industry, LG has developed a premium solar module product line that offers long-term quality assurance and high energy output capacity.

LG Solar continues to seek new challenges even today. Rather than settling for its successes up to this point, LG Solar will continue its genuine and relentless pursuit of value to satisfy its customers.



Iran

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