

Innovation for a Better Life

LG Solar

LG Electronics Inc.

LG Twin Towers, 128 Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Korea

http://lg-solar.com

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* The contents can be changed without notice.

Technological Innovation – an imperative for sustainable renewable energy.

Solar energy has grown exponentially thanks to rapidly improving technology and growing public interest. Because photovoltaic (PV) modules have an average lifespan of several decades, choosing a well-built product from a trusted brand is crucial. Through 30 years of diligent solar research and development, LG relentlessly leads the industry with PV modules that are unparalleled in quality and performance. LG, as a trusted global brand, is a reliable partner for your business.



Innovation for a Better Life

Best Partner for Your Life



Contents

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

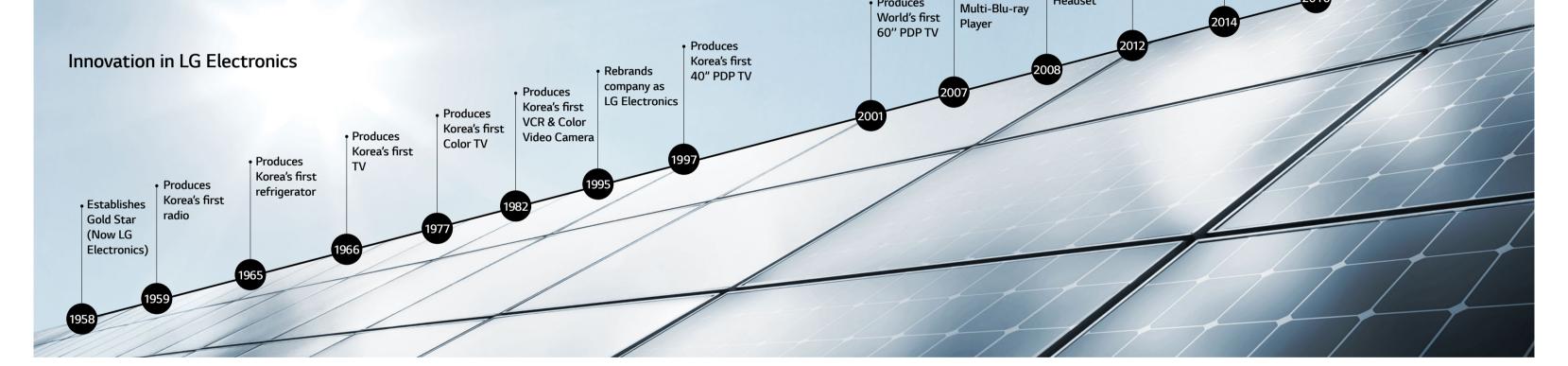
Reference

Contact Us

Innovation for a Better Life Brand Power LG Solar

BRAND POWER

Ever since 1958, LG has pioneered innovation and development in electronics and technology. From washing machines and dryers to Smart TVs and mobile phones, the LG brand has become a global icon of excellence. Now LG is bringing the same standards of perfection to energy solutions, vehicle components and other product lines.



LG Electronics is a truly global company with a presence in 118 locations around the world and more than 75,000 employees.



REVENUE Workforce World Presence

\$55.4 billion (2018) 75,150

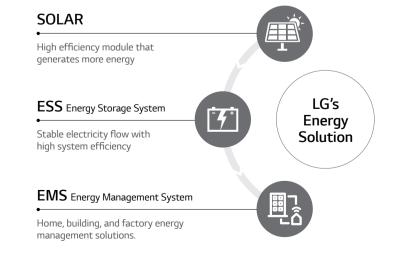
LG Energy Solutions

LG offers solar modules, energy storage systems (ESS), and energy management systems (EMS).

Produces

Produces

World's first



Launches ThinQ Brand

services

for AI powered

electronics and

Launches

premium

brand

LG Signature

Produces

• Produces

Produces

World's first

Bluetooth

Headset

World's first

84" Ultra HD TV

World's first

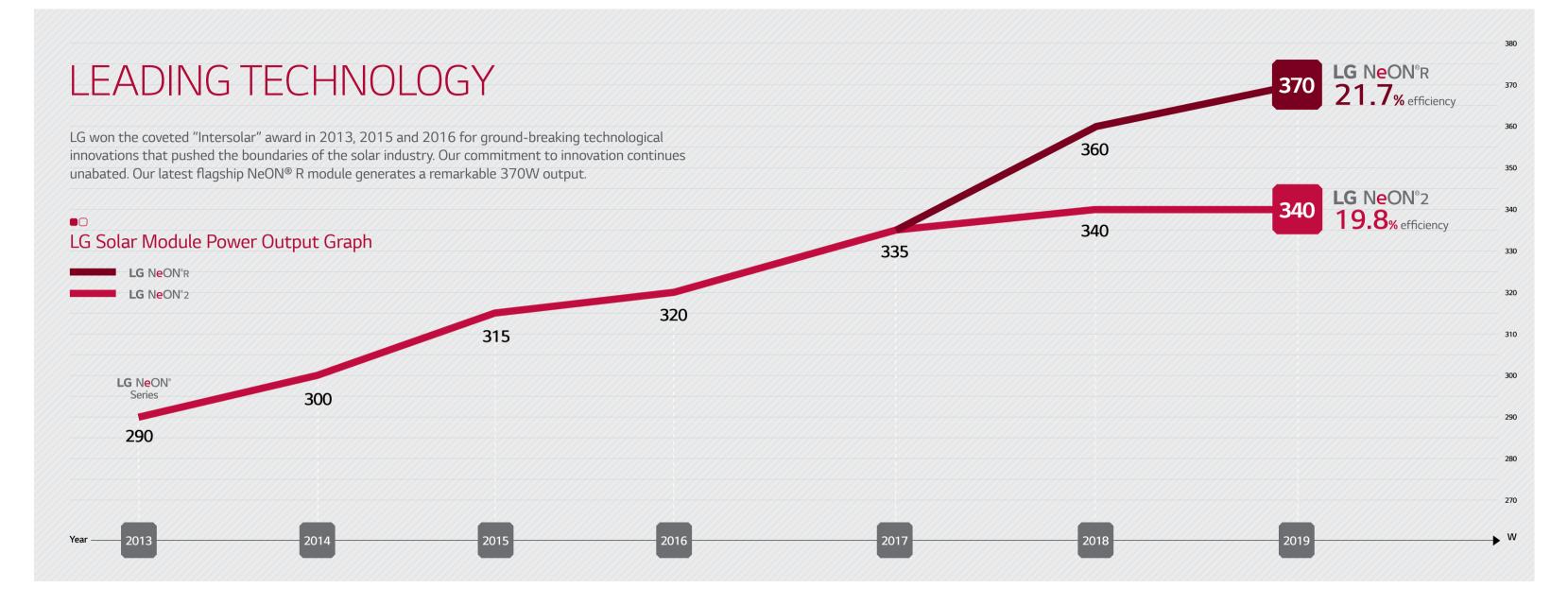
4K OLED TV

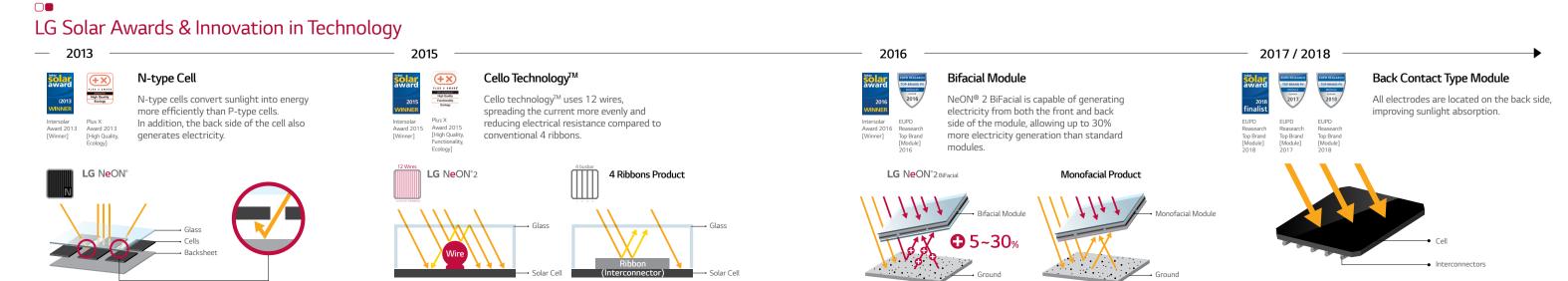
and Smart TV

Innovation for a Better Life

Leading Technology

LG Solar





QUALITY

A commitment to quality is the very essence of LG's product philosophy. To this end, we have designed our solar modules to remain robust even in less-than-ideal operating conditions such as high temperatures or low irradiance. With LG panels, customers can be sure to generate more energy for longer.

Operational Excellence & Testing Facilities

LG solar modules are built in a fully automated, state-ofthe-art production line to maintain the utmost precision and quality. Furthermore, LG is the first corporation in the world to operate in-house solar testing facilities certified by the four leading inspection and certification authorities.





















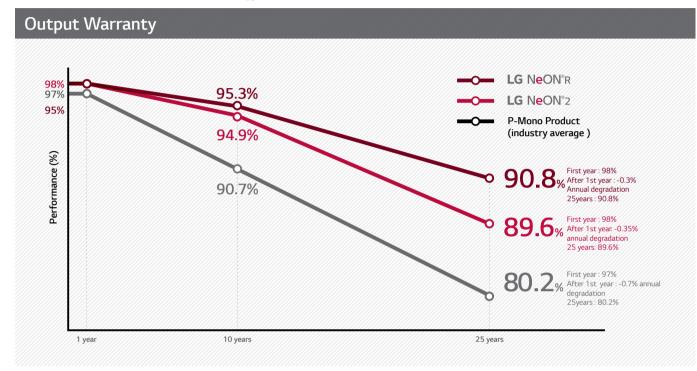


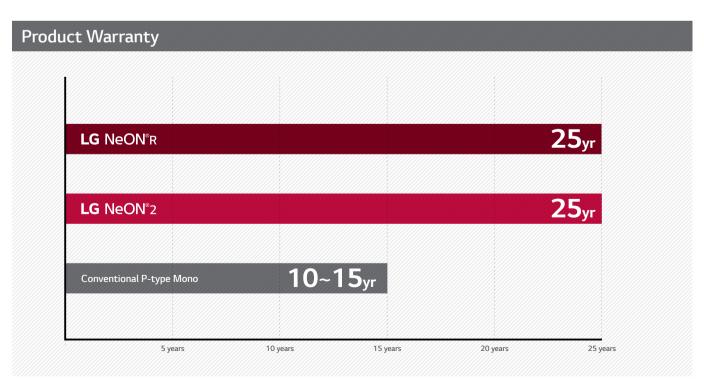


Uniform High Quality

Superior Performance and Product Warranties

LG offers industry-leading performance and product warranties, thereby giving customers the peace of mind to make a long term investment in clean, reliable solar energy.





LG NeON®R

World's Highest Power Class

The LG NeON® R features the highest and most efficient energy generation technology that LG has ever produced. A revolutionary new cell structure that moves the electrodes to the back of the panel ensures both higher light absorption and a cleaner design.





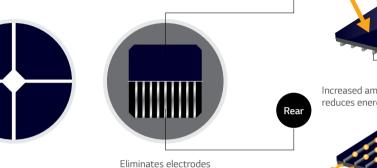
Technical Data

Product Model	LG NeON® R 60cell		
Cell Type	Monocrystalline / N-type		
# of Cells	60cell (6 x 10)		
Maximum Power	370W	365W	
Module Efficiency	21.4%	21.1%	
Dimensions (L x W x H)	1,700 x 1,016 x 40 mm		
Weight	17.5kg		
Output Warranty of Pmax	Linear Warranty First year : 98%, After 1st year : 0.3% annual degradation, 25years : 90.8%		
Product Warranty	25years		

Features

Technical Features

The LG NeON® R has been designed with sleek appeal at the forefront. The metal electrodes have been re-located to the back side of the panel. The result is a clean, sleek panel that blends in seamlessly on rooftops and can thereby can help increase property values.



on the front of cells

Interconnectors positioned on the cell's rear side maximize light absorption



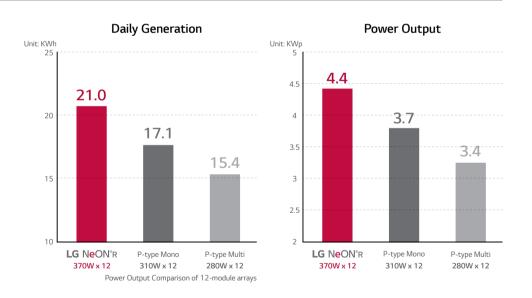
High efficiency advantage

Delivers premium

black frame

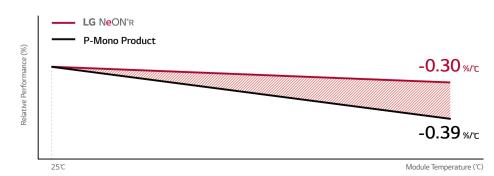
The high efficiency of the LG NeON® R module allows more energy to be generated from the same number of panels. Alternatively, fewer modules are needed to meet a given energy requirement. This flexibility allows customers the option to expand the system in the future.

Pvsyst V6.78 San Jose, CA, USA Source: PAN file , datasheet



Superior temperature coefficient

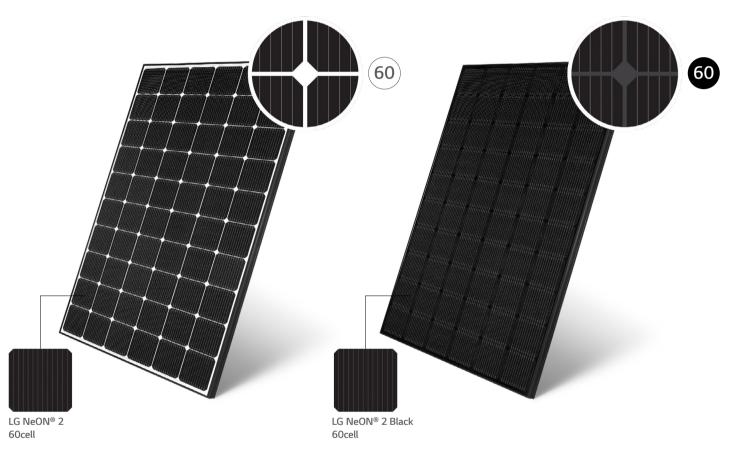
The NeON® R is less sensitive to temperature variations than conventional p-mono panels. The hotter the weather, the bigger the gap between the Neon® R and conventional p-mono panels.



LG NeON®2 60 cell | LG NeON®2 Black 60 cell

LG's Flagship Module

The LG NeON® 2 is LG's flagship solar module. It received the acclaimed 2015 Intersolar award for featuring LG's Cello Technology™, which improves performance and makes the LG NeON® 2 one of the most powerful and versatile modules on the market.



Technical Data

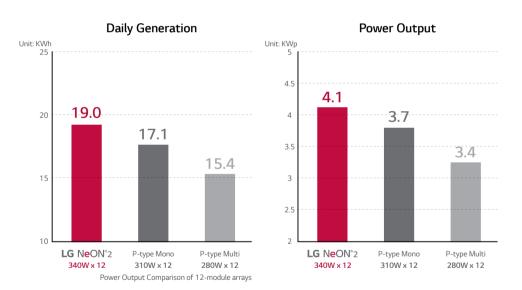
Product Model	LG NeON® 2 60cell			LG NeON® 2	Black 60cell
Cell Type	Monocrystalline / N-type			Monocrysta	lline / N-type
# of Cells	60cell (6 x 10)			60cell ((6 x 10)
Maximum Power	340W	335W	330W	325W	320W
Module Efficiency	19.8%	19.6%	19.3%	19.0%	18.7%
Dimensions (L x W x H)	1,686 x 1,016 x 40 mm			1,686 x 1,0	16 x 40 mm
Weight	17.1kg			17.1kg	
Output Warranty of Pmax	Linear Warranty (First year : 98%, After 1st year : 0.35% annual degradation, 25years : 89.6%)				
Product Warranty	25years				

Features

Technical Feature Increased Light Absorption Reduced Electricity Loss Cello Technology Conventional Ribbon Product Reduced Electricity Loss Glass Glass Solar Cell Conventional Ribbon Product

High Power Module

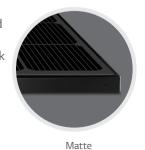
The LG NeON® 2 produces more energy than conventional P-type modules, allowing energy requirements to be met in a smaller footprint.



Pvsyst V6.78 San Jose, CA, USA Source: PAN file , datashed

Aesthetic All-Black Module

The LG NeON® 2 black is built around the black theme. Designed with a sophisticated matte black frame, a black back sheet, and black cells with thin electrodes, this module is perfectly suited to any rooftop.



Black Frame





Black Back sheet

Black Cell with Cello Technology

LG NeON®2 72 cell

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 Technology $^{\text{TM}}$ which increases its power output and reliability making it one of the most powerful and versatile modules on the market.



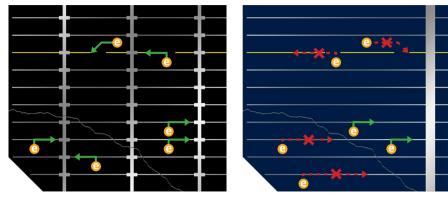
Technical Data

Product Model	LG NeON® 2 72Cell		
Cell Type	Monocrystalline / N-type		
# of Cells	72cell (6 x 12)		
Maximum Power	400W	395W	
Module Efficiency	19.3%	19.1%	
Dimensions (L x W x H)	2,024 x 1,024 x 40 mm		
Weight	20.3kg		
Output Warranty of Pmax	Linear Warranty (First year : 98%, After 1st year : 0.35% annual degradation, 25years : 89.6%)		
Product Warranty	25years		

Features LG NeON°2 Conventional Ribbon Product

Enhanced Long-term Reliablity

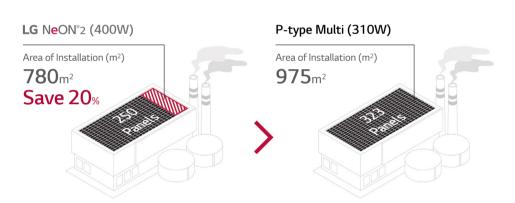
When micro-cracks or finger electrode erosion occurs due to external factors, the layout of wires helps mitigate the performance loss caused by blocked electrical pathways.



Multiple electrical paths maintained by wires

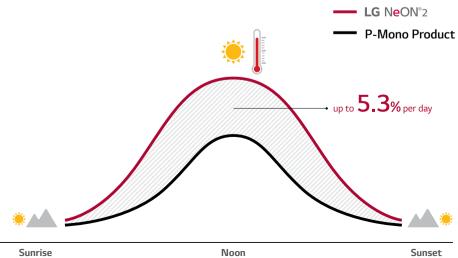
High Power Module

The LG NeON® 2 produces more electricity than conventional P-type modules, allowing you to make more energy in less space.



Strong Performance Throughout the Day

N type based technology has a better temperature coefficient and generates a much higher yield than nameplate and/or P type based technology.



PVsyst V6.78 San Jose, CA, USA Up to 5.3% in a year Source: PAN file , datasheet

LG NeON®2 BiFacial



Double-sided Generation At Its Best

The LG NeON® 2 BiFacial is designed with a transparent back sheet to absorb sunlight from both the front and the back of the cell. This increases the amount of sunlight that is collected, improving energy generation.



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		



Features

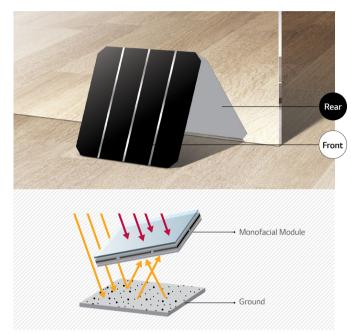
N-type Cell (double-sided generation cell structure)

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

LG NeON®2 BiFacial

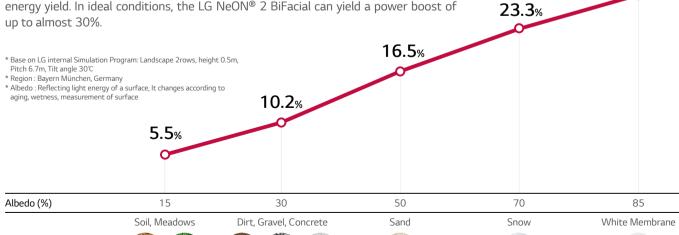
Rear Front Bifacial Module

Conventional Monofacial Product



Additional Energy Yield

The amount of additional energy the LG NeON® 2 BiFacial can produce depends on the reflectiveness of the surface. The higher reflectiveness, the higher the additional energy yield. In ideal conditions, the LG NeON® 2 BiFacial can yield a power boost of up to almost 30%.















26.9%

Innovation for a Better Life **LG** Solar

REFERENCE

Residential

REFERENCE

Residential





Thailand_Bangkok Germany_Grasberg Switzerland_Kolliken Germany_Leipzig Netherlands_Venlo

REFERENCE

Commercial Utility



Thailand_Bangkok USA_Easton



Australia_Sydney Korea_Sejong Japan_Hokkaido Japan_Aomori

PRODUCT LINE-UP

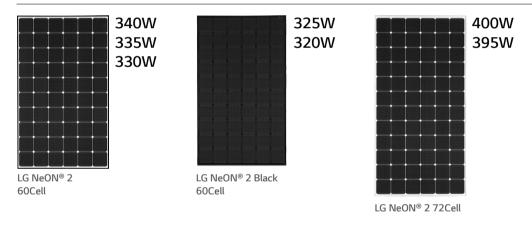
PRODUCT LINE-UP

LG NeON®R



60Cell

LG NeON[®]2



LG NeON®2 BiFacial



LG NeON® 2 Bifacial 72Cell

LG Solar, Your Trustworthy Energy Partner

LG Electronics has been actively involved in solar energy research for over 30 years. We also bring more than 50 years' experience in the electronics industry to the table. By synergizing the know-how we have gained from these endeavors, we have developed a complete line-up of premium solar modules offering enhanced energy output and long-term quality assurance. But we don't rest on our laurels. We continue to invest relentlessly to develop the next generation of solar technology, ensuring a brighter, cleaner future for our children.

