





Innovation for a Better Life

LG SOLAR

LG Electronics Inc.

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

http://www.lg.com/global/business/solar

Copyright © 2017 LG Electronics. All rights reserved. CT-ET-EU-EN-F-70407

* The contents can be changed without notice.

2017 PRODUCT CATALOG

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

The advancement of solar technology and affordability paired with the positive public view led to an exponential growth for the industry. Since photovoltaic (PV) modules have an average lifespan of 25 years, choosing a robust product from a trusted brand is paramount for all consumers. Through 30 years of diligent solar research and development, LG continuously leads the industry with PV modules that are unparalleled in quality and performance. Additionally, LG's record is complimented by the stability of its veteran brand making LG the reliable partner for everyone.





LG SOLAR

Contents

Why LG Solar?

- Brand Power
- Leading Technology
- Quality

LG NeON® Series

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

LG MonoX® Plus

- LG MonoX® Plus
- LG MonoX® Plus (For Floating System)

Reference

Contact Us

Produces World's first

4K OLED TV

and Smart TV

Produces

Produces

Produces

Player

Produces

Produces

World's first

60"PDPTV

World's first

Multi-Bluelay

World's first

Bluetooth

Headset

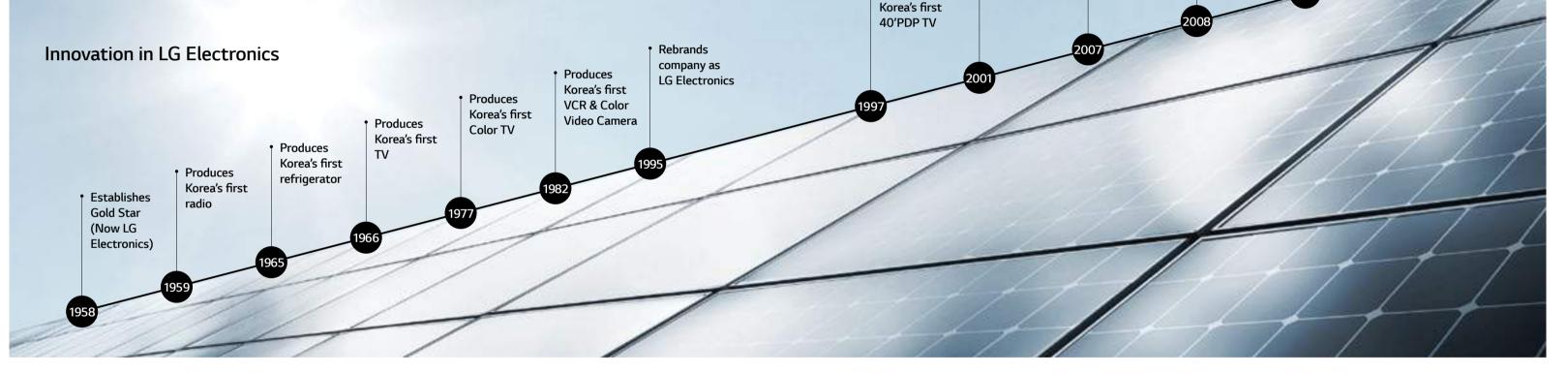
World's first

84'Ultra HD TV

BRAND POWER

Brand Power

Through time-tested experience in the electronics and technology industry, the LG brand became an icon of excellence in the Home Appliance and Home Entertainment markets. We will continue to uphold our standards of perfection in our younger ventures such as our Vehicle Component and Energy Business Company.



LG Electronics plays an active role in world markets with its assertive global business policy.
As a result, LG Electronics controls 125 local subsidiaries worldwide, with roughly 77,000 executives and employees.



REVENUE Workforce World Presence

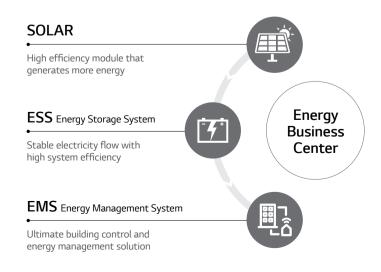
\$47.92 billion(2016)

77,000

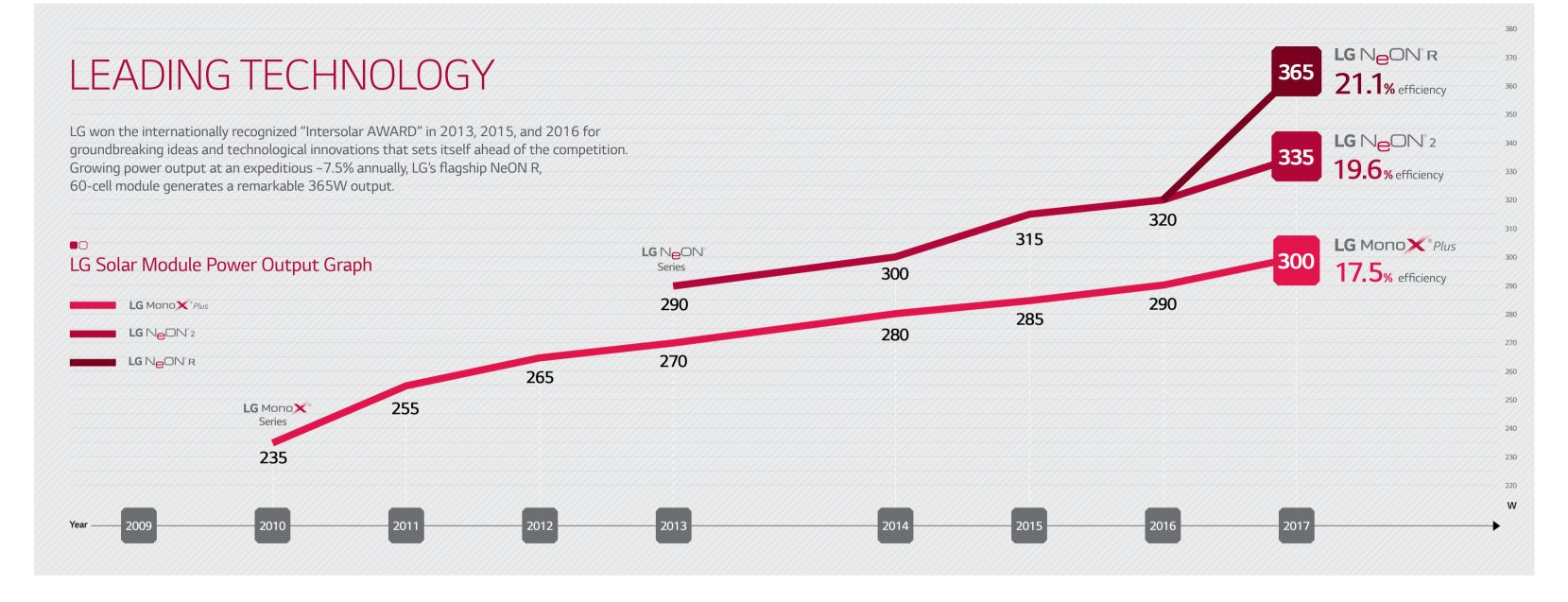
125 Global Operations

LG Smart Energy Solutions

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



* LGE consolidated basis, Exchange Rate KRW 1,155.47 per U



LG Solar Awards & Innovation in Technology

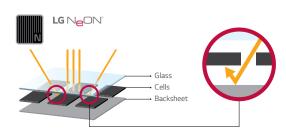


2013



N-type Cell

N-type cells convert sunlight into energy more efficiently than P-type cells. Additionally, the rear side of the cell also generates energy



2015



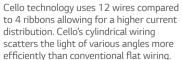




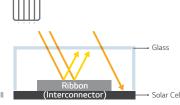




Cello Technology











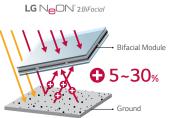


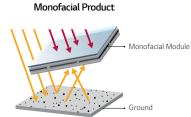
2016 / 2017



Bifacial Product

NeON® 2 BiFacial is capable of generating energy from the module front and rear sides allowing up to 30% more energy generation than standard PV module.





WHY LG SOLAR

Innovation for a Better Life LG SOLAR

QUALITY

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, warrants LG quality and consumer confidence.

Operational Excellence & Testing Facilities

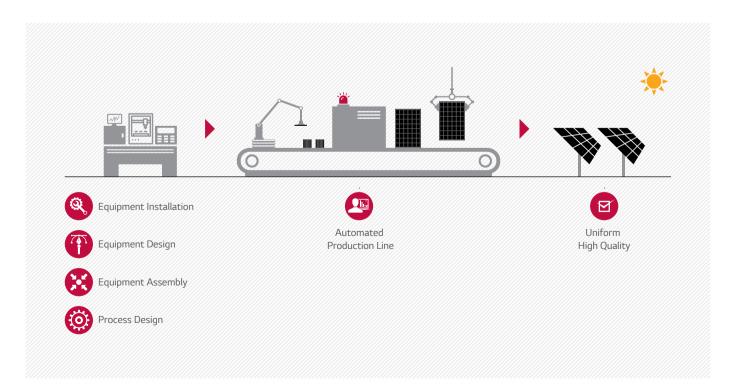
LG PV modules are built on an automated production line in order to maintain the utmost precision and quality, And LG is the first corporation in the world to operate in-house solar testing facilities that are certified by the 4 major inspection and certification authorities.





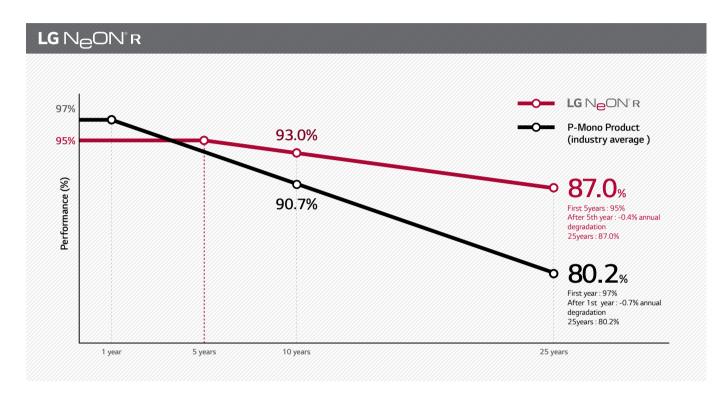


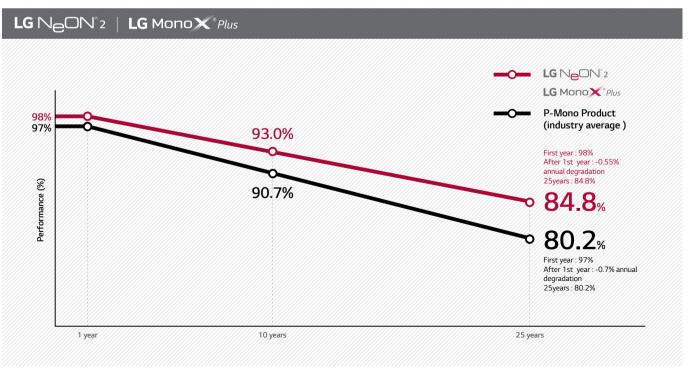




Superior Performance Warranty

LG offers industry top-level warranty on output providing customers with peace of mind when generating electricity

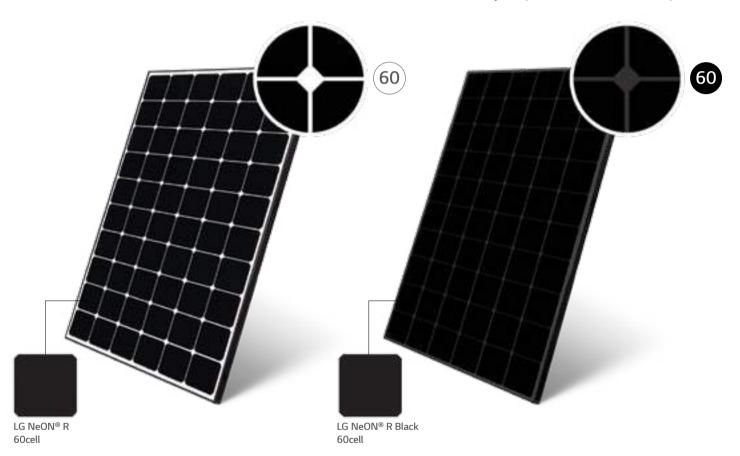




LG NeON° R | LG NeON° R Black

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. The LG NeON® R Black is the sleek version of the LG NeON® R built to astatically compliment a residential rooftop.





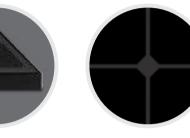
Technical Data

Product Model	LG NeON® R 60cell				LG NeON® R Black 60cell		
Cell Type	Monocrystalline / N-type				Monocrystalline / N-type		
# of Cells	60cell (6 x 10)			60cell (6 x 10)			
Maximum Power	365W 360W 355W 350W			350W	345W	340W	
Module Efficiency	21.1%	20.8%	20.6%	20.3%	20.3%	20.0%	19.7%
Dimensions (L x W x H)	1,700 x 1,016 x 40 mm 1,700 x 1,016 x 40 mm			m			
Weight	18.5kg 18.5kg						
Output Warranty of Pmax	Linear Warranty (First 5 years : 95%, After 5th year : 0.4% annual degradation, 25years : 87%)						

Features

Technical Feature

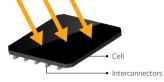
The LG NeON® R is a "true black" module that eliminates metal electrodes on the front side. The module's environmental and aesthetic design is ideal for roofs offering a clean, sleek modern exterior and increasing the home's value.



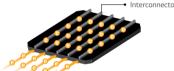


Eliminates electrodes on the front of cells

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



Increased amount of Interconnectors

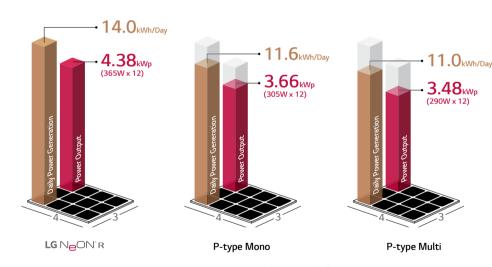


High Power Generation

Delivers premium

piano black frame

The LG NeON® R is a high efficiency module that generates more energy than a conventional module. Less modules are needed to achieve energy requirements allowing consumers flexibility in system design.



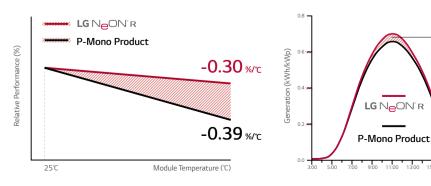
- * PV Syst simulation result
- * Region : Bayern München, Germany
- * Data source : Pan file. Datasheet

Power Output Comparison of 12-module arrays

High Temperature Stability

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

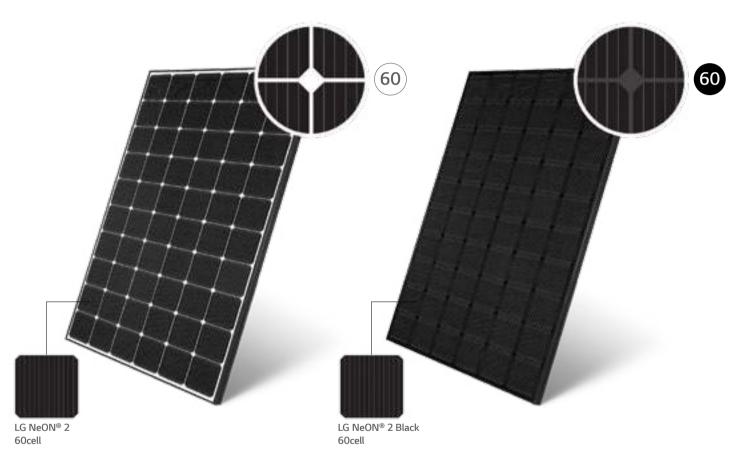
- * PV Syst simulation result
- * Region : Bayern München, Germany
- * One day in July (Highest temperature in a day : 32°C)
 * Data source : Pan file, Datasheet



LG NeON° 2 | LG NeON° 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 Technology that increases its power output and reliability making it one of the most powerful and versatile modules on the market.



Technical Data

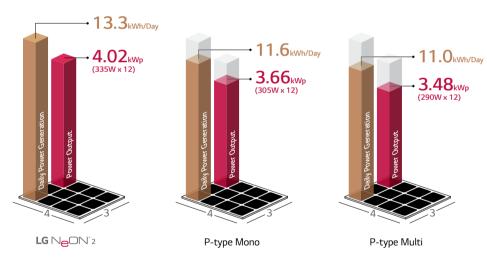
Product Model	LG NeON® 2 60cell			LG NeON® 2 Black 60cell		
Cell Type	Monocrystalline / N-type			Monocrystalline / N-type		
# of Cells	60cell (6 x 10)			60cell (6 x 10)		
Maximum Power	335W 330W 325W			320W	315W	
Module Efficiency	19.6%	19.3%	19.0%	18.7%	18.4%	
Dimensions (L x W x H)	1,686 x 1,016 x 40 mm			1,686 x 1,016 x 40 mm		
Weight	18kg			18kg		
Output Warranty of Pmax	Linear Warranty (First year : 98%, After 1st year : 0.55% annual degradation, 25years : 84.8%)					

••• Features

Technical Feature Increased Light Absorption Reduced Electricity Loss Cello Technology™ Conventional Ribbon Product Reduced Electricity Loss Glass Glass Glass Interconnectors

High Power Module

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



Power Output Comparison of 12-module arrays

Aesthetic Black module

* PV Syst simulation result * Region : Bayern München, Germany

The LG NeON® 2 is equipped with a sophisticated glossy piano black frame and a complimentary black back sheet, and black cells with thin electrodes. This module is perfectly-suited to any rooftop.

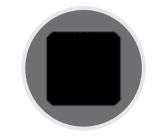


Glossy Piano

Black Frame



Black Back sheet



Innovation for a Better Life

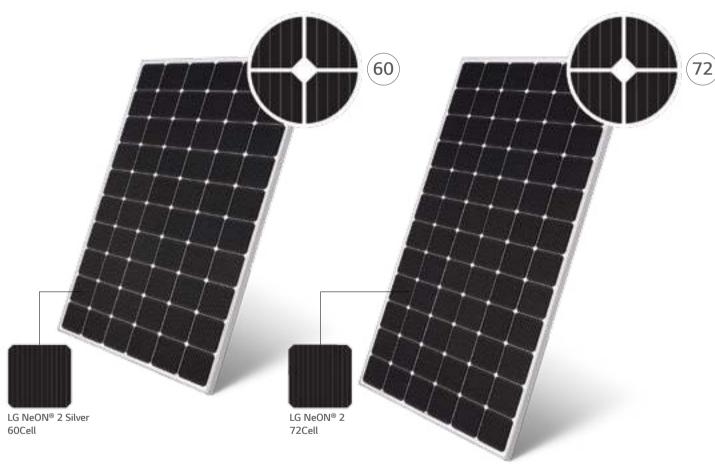
LG SOLAR

Black Cell with Cello Technology



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 that increases its power output and reliability making it one of the most powerful and versatile modules on the market.



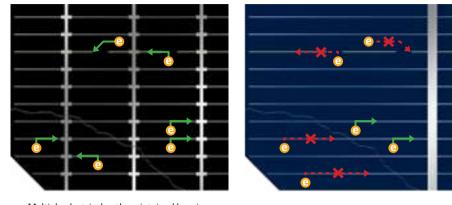
Technical Data

Product Model	LG NeON® 2 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 325W			400W	395W	390W
Module Efficiency	19.6%	19.3%	19.0%	19.3%	19.1%	18.8%
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 : 0.55% annual degradation, 25years : 84.8%)					

Features LG NeON°2 Conventional Ribbon Product

Enhanced Long-term Reliablity

When micro crack or finger electrode erosion happens by natural degradation of mechanisms in the outskirts of the solar cell, LG NeON® 2 reduces down performance by blocking the electrical path due to the tight layout of wires



Multiple electrical path maintained by wires

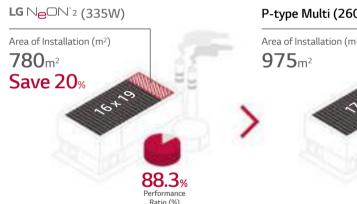
High Power Module

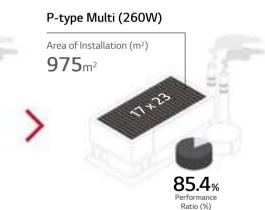
* PV Syst simulation result * Region : Bayern München, Germany

* The distance between modues in an array : 20mm

* Data source : Pan file, Datasheet * Pitch : 5.5m

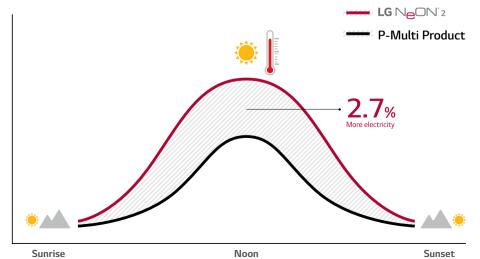
The LG NeON® 2 produces more energy than Conventional P-type Multi modules allowing energy requirements to be met using less space.





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 at low irradiation conditions.

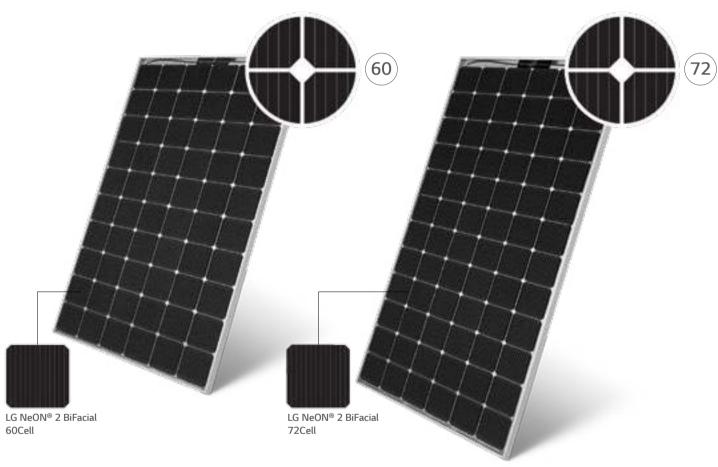


- * PV Syst simulation result
- * Region : Bayern München, Germany * One day in July(Highest temperature in a day : 32℃)
- * Data source : Pan file. Datasheet

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 allows for higher energy generation.



Technical Data

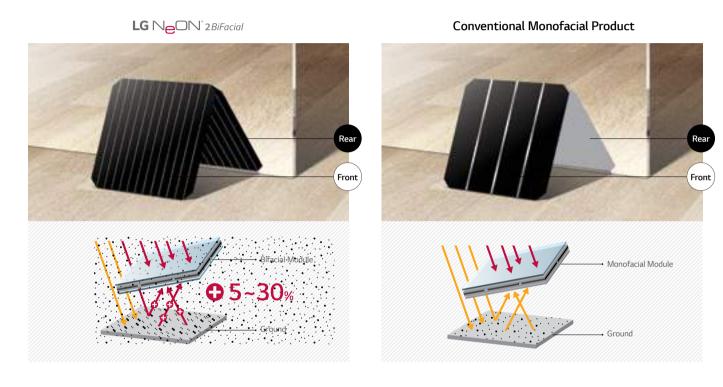
Product Model	LG NeON® 2 E	BiFacial 60Cell	LG NeON® 2 BiFacial 72Cell		
Cell Type	Monocrystal	line / N-type	Monocrystalline / N-type		
# of Cells	60cell (6 x 10)	72cell (6 x 12)		
Maximum Power	315W	310W	385W	380W	375W
Module Efficiency	17.8%	17.5%	18.3%	18.0%	17.7%
Dimensions (L x W x H)	1,730 x 1,03	24 x 40 mm	2,064 x 1,024 x 40 mm		
Weight	19.6kg 22.1kg				
Output Warranty of Pmax	Linear Warranty (First year : 98%, After 1st year : 0.55% annual degradation, 25years : 84.8%)				



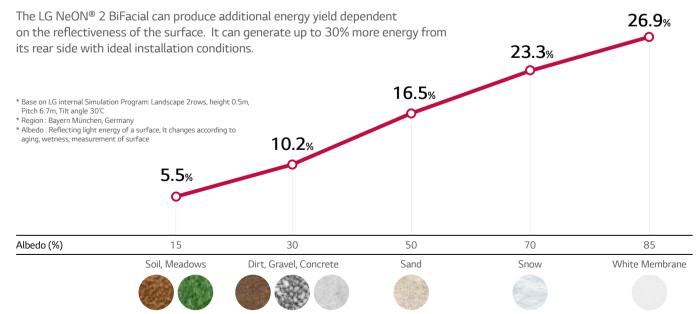
Features

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

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



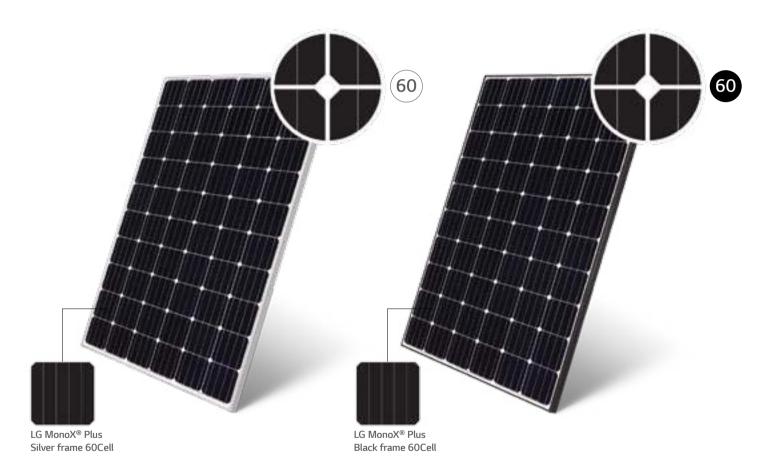
Additional Energy Yield Based on Ground Type





Built Tough

The LG MonoX® Plus is an extremely robust P-type module that maintains high performance by using LG's LiLY Technology. LG also provides an enhanced warranty to for LiLY Technology modules.



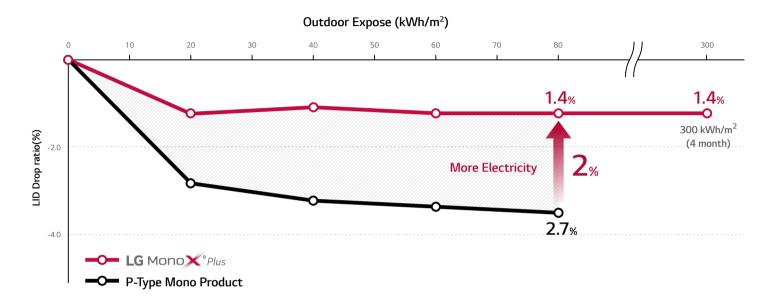
Technical Data

Product Model	LG MonoX® Plus 60Cell				
Cell Type	Monocrystalline / P-type				
# of Cells	60cell (6 x 10)				
Maximum Power	300W	295W	290W		
Module Efficiency	17.5%	17.2%	16.9%		
Dimensions (L x W x H)	1,686 x 1,016 x 40 mm				
Weight	18kg				
Output Warranty of Pmax	Linear Warranty (First year : 98%, After 1st year : 0.55% annual degradation, 25years : 84.8%)				

••• Features

LiLY Technology

The LG MonoX® Plus remains resilient against light induced degradation through the use of LG's LiLY Technology.



Extreme Physical Durability

The LG MonoX® Plus's stress endurance is rated to handle up to 6000 Pa on the front side and up to 5400 Pa on the rear side.





Built to work over water

The MonoX® Plus is reinforced as water floating product, optimized for lake and reservoir applications. It can provide a long-term and stable power generation with its enhanced high moisture resistance. Moreover, using PB free ribbons, MonoX® Plus can prevent water pollution.



Technical Data

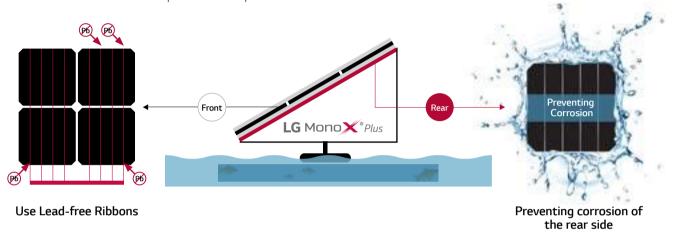
Product Model	LG MonoX® Plus 72Cell				
Cell Type	Monocrystalline / P-type				
# of Cells	72cell (6 x 12)				
Maximum Power	360W	355W			
Module Efficiency	17.4%	17.1%			
Dimensions (L x W x H)	2,024 x 1,024 x 40 mm				
Weight	21.7kg				
Output Warranty of Pmax	Linear Warranty (First year : 98%, After 1st year : 0.55% annual degradation, 25years : 84.8%)				



Features

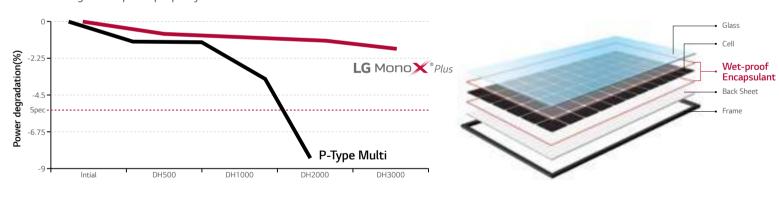
Environmentally-friendly Module

It is a product designed to minimize the corrosion of module when generating over water for a long time, and it uses lead-free ribbon to prevent water pollution



Enhanced Power Reliability

It has a higher credibility than that of solar cells when using over water, as it is applied with the components with a stronger wet-proof property



Balance of System(BOS) Saving

It is a high-performance model that may reduce the cost for system.



REFERENCE

Residential



Thailand_Bangkok



Netherland_Venlo Thailand_Bangkok Germany_Leipzig Germany_Grasberg Switzerland_Kolliken

REFERENCE

Commercial Utility

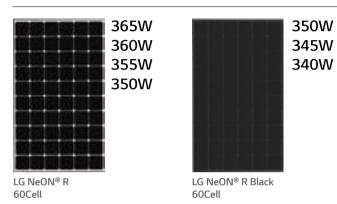


Thailand_Bangkok USA_Easton

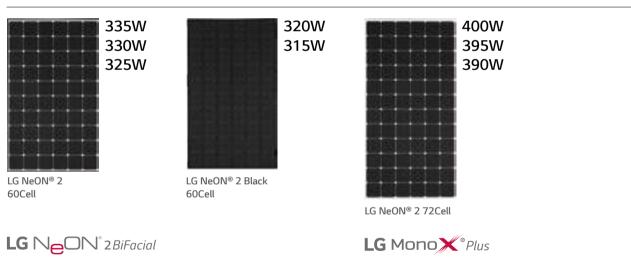


PRODUCT LINE-UP

LG NeON°R

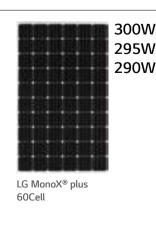


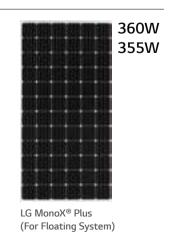
LG NeON°2











BEST PARTNER, LG SOLAR

LG Solar has conducted continued solar energy research for the last 30 years, and by synergizing this research with more than 50 years of experience and knowhow in the electronics industry, has developed a premium solar module product line that offers longterm 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.

Contact Us

