



2020 LG SOLAR
PRODUCT CATALOG



LG Electronics U.S.A. Inc

2000 Millbrook Drive
Lincolnshire, IL 60069

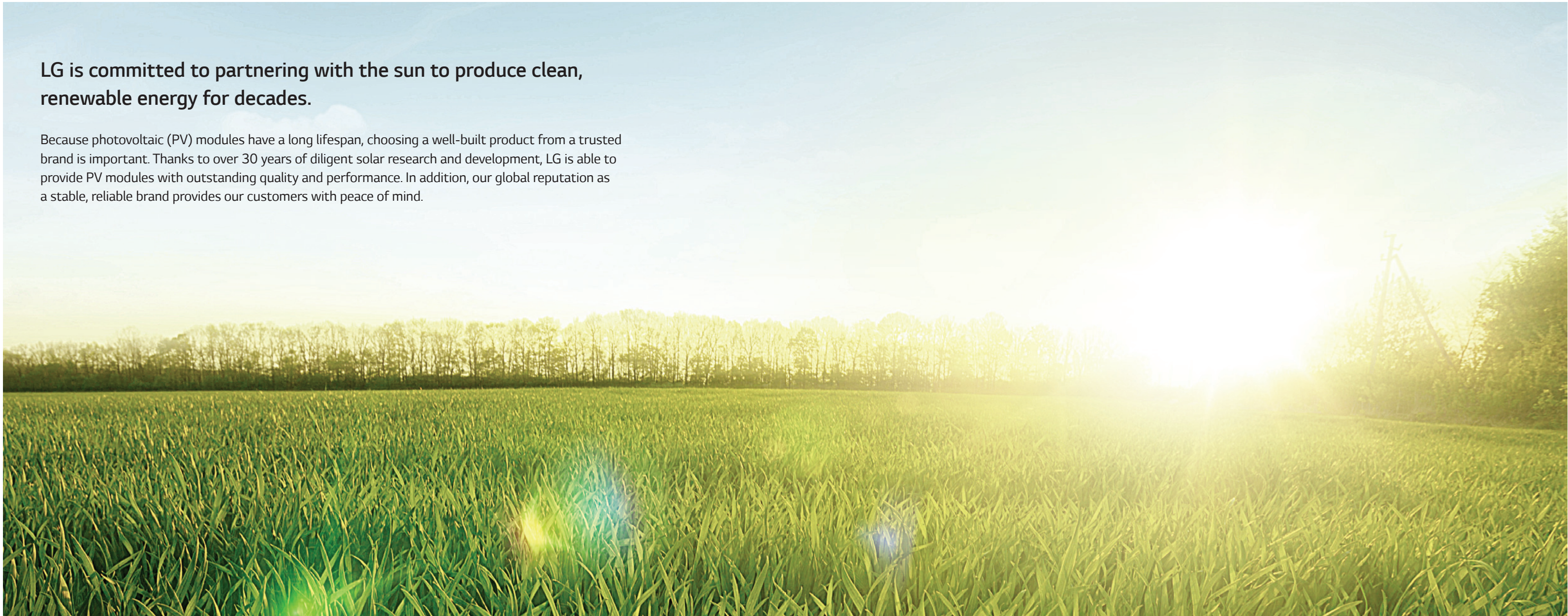
www.lg.com/us/solar

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CT-ET-GL-EN-F-80525

* The contents can be changed without notice.

LG is committed to partnering with the sun to produce clean, renewable energy for decades.

Because photovoltaic (PV) modules have a long lifespan, choosing a well-built product from a trusted brand is important. Thanks to over 30 years of diligent solar research and development, LG is able to provide PV modules with outstanding quality and performance. In addition, our global reputation as a stable, reliable brand provides our customers with peace of mind.



Contents

Why LG Solar?

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- Leading Technology
- Quality

LG NeON® Series

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

Reference

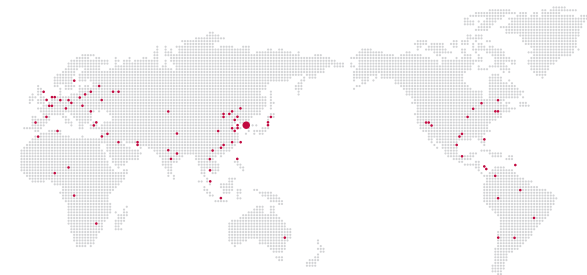
Contact Us

LG: A Name You Can Trust

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 newer ventures, such as our Vehicle Component and Energy Business companies.



LG Electronics has a vast global presence, with 118 worldwide subsidiaries and over 75,000 executives and employees.



REVENUE

\$54.4 billion(2018)

*LGE consolidated basis, Exchange Rate KRW 1,108.51 per USD

Workforce

75,150

World Presence

118 Global Operations

LG Smart Energy Solutions

LG's complete energy management system integrates solar energy production, storage and control. Bundle your devices and appliances for easy smart home monitoring.

SOLAR

High-efficiency PV modules to generate energy.



LGE Energy Storage System

Stores energy generated from sunlight during the day and uses it to power your home in the evening and at night.

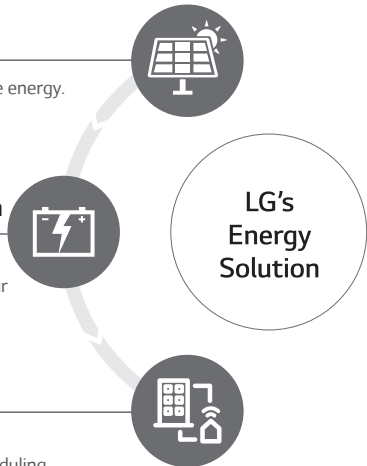


EMS Energy Management System

Customers are now in full control with self-consumption, TOU rate smart scheduling and remote system monitoring.



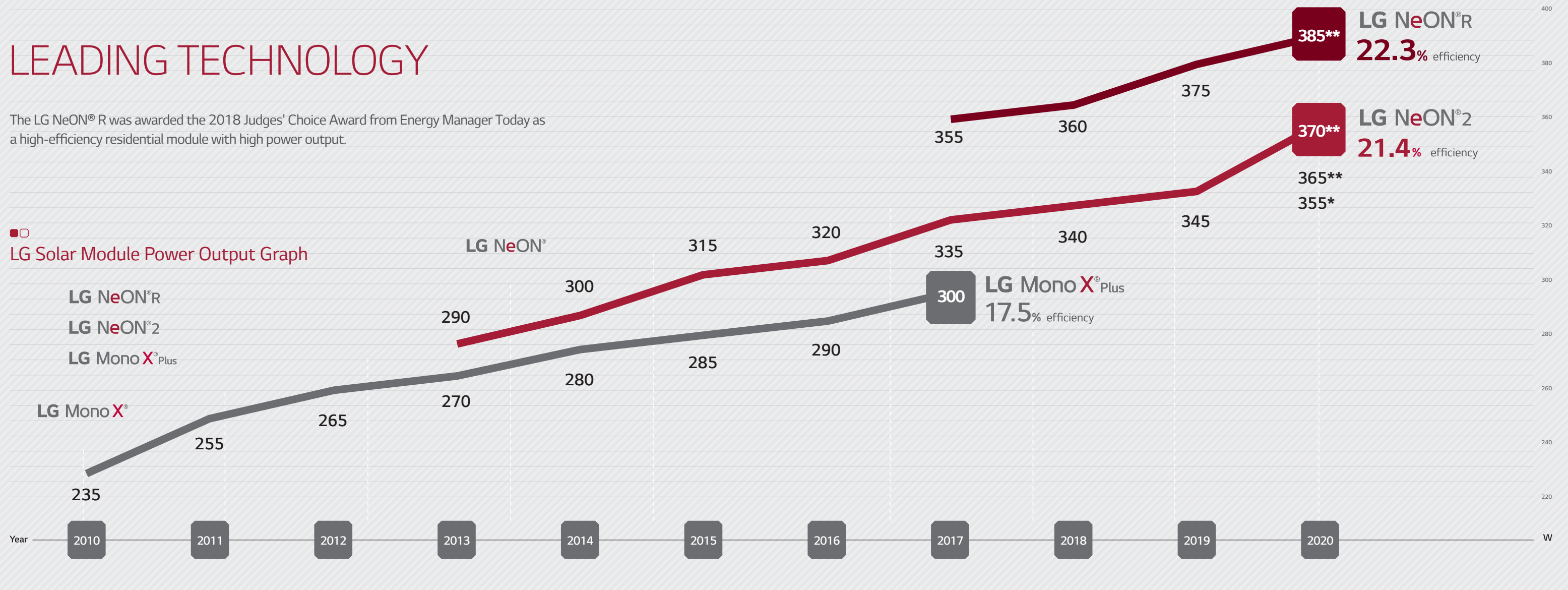
LG's Energy Solution



LEADING TECHNOLOGY

The LG NeON[®] R was awarded the 2018 Judges' Choice Award from Energy Manager Today as a high-efficiency residential module with high power output.

■ □ LG Solar Module Power Output Graph



* Available in Q2 2020
 ** Available in 2H 2020

LG Solar Awards & Innovation in Technology

2013

Intersolar Award 2013 [Winner]

Plus X Award 2013 [High Quality, Ecology]

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

Intersolar Award 2015 [Winner]

EUPD Research Top Brand [Module] 2015

Plus X Award 2015 [High Quality, Functionality, Ecology]

Cello Technology™
 Cello Technology™ uses 12 round wires instead of 3 conventional ribbons to scatter light more effectively within the cells.

2016 / 2017

Intersolar Award 2016 [Winner]

EUPD Research Top Brand [Module] 2016

EUPD Research Top Brand [Module] 2017

Judge's Choice Award 2018 [Winner]

BiFacial Product
 LG's BiFacial modules capture light from above and below so they can generate energy from absorbed reflected light.

2019

2019 Architectural Product Innovation Award

pv magazine Award 2019

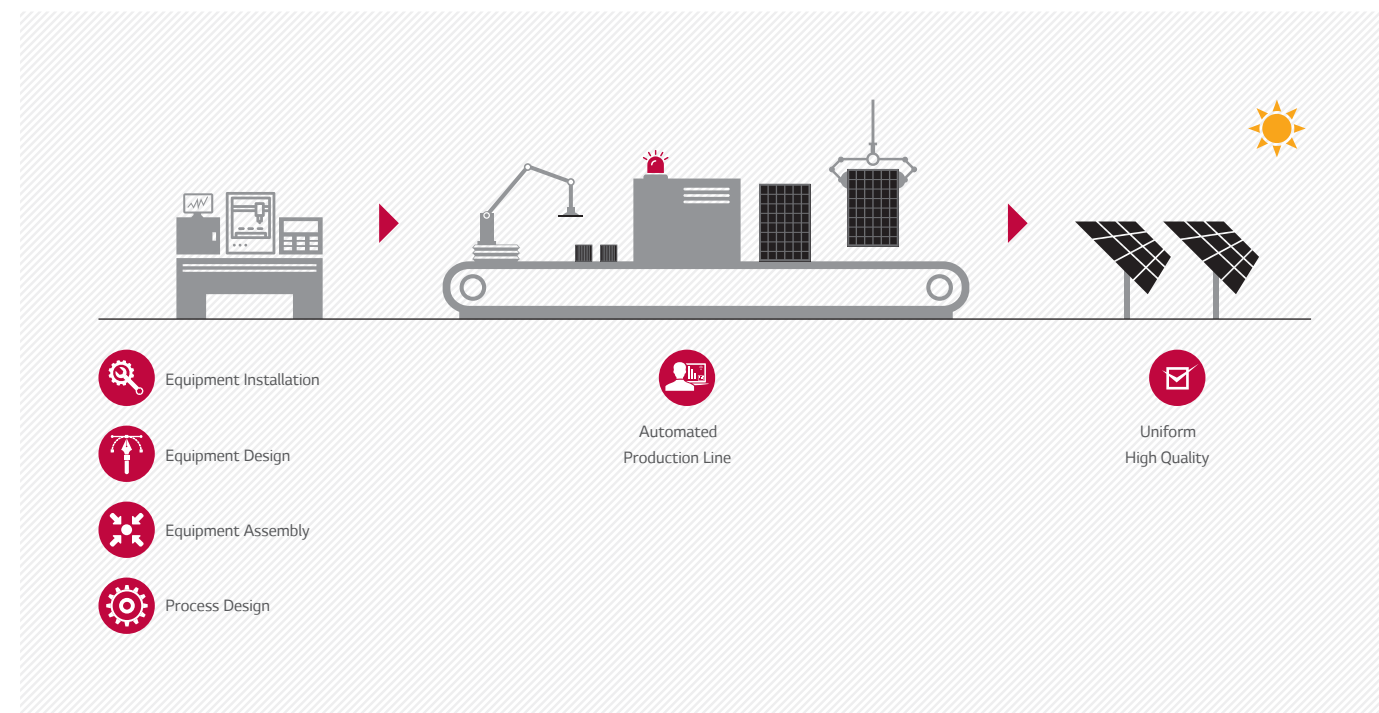
NeON[®] R ACe
 LG's NeON[®] R ACe is a high power smart AC module.

QUALITY

LG has always built innovative, high quality products, and LG Solar 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.

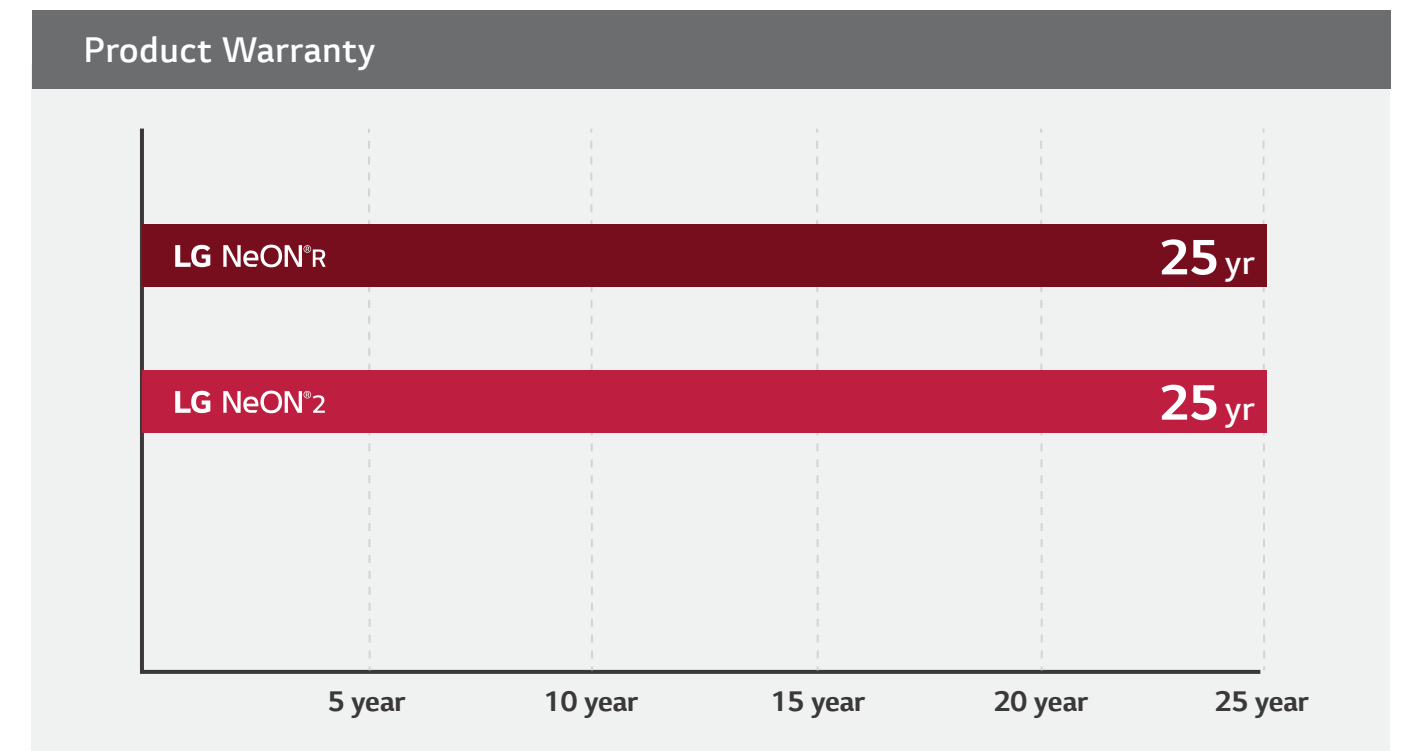
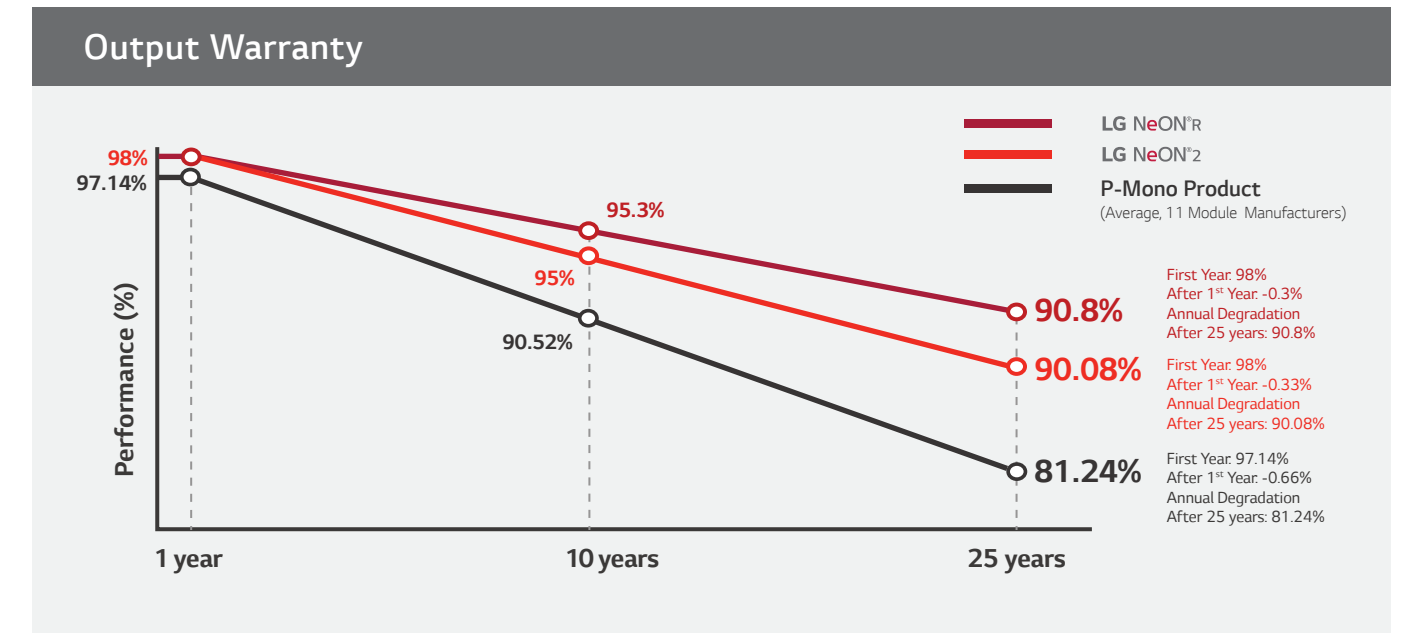
Operational Excellence & Testing Facilities

To maintain high quality and precision, LG operates an automated production line. Our testing facility is certified by 4 major inspection and certification authorities.



Superior Performance Warranty

LG offers a 25 year limited warranty on output performance, product and labor. Customers will have peace of mind while producing decades of clean energy.

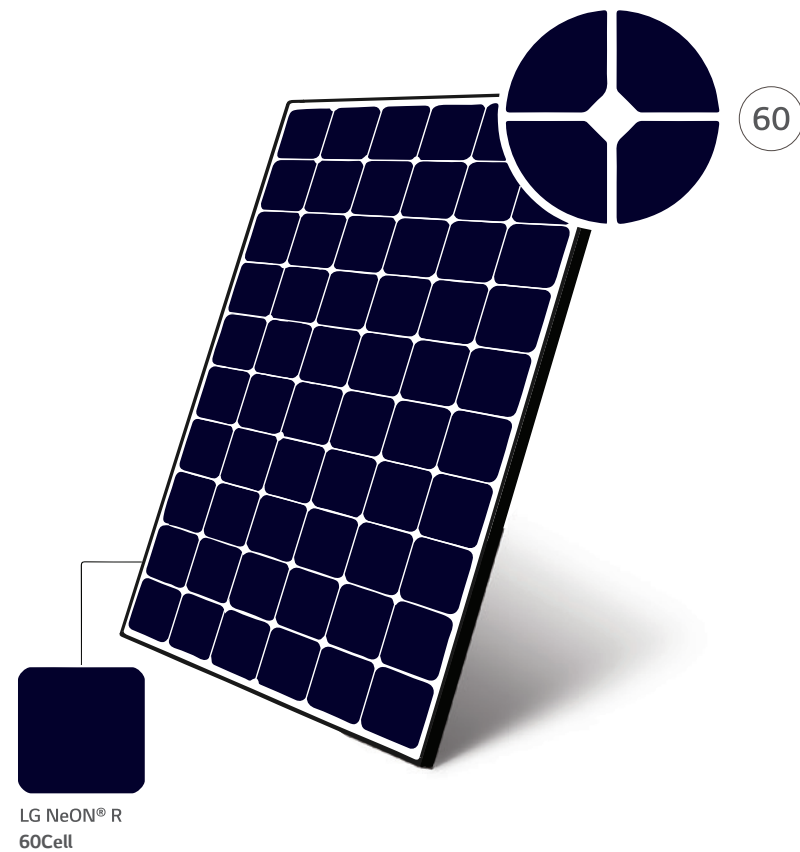


LG NeON[®] R



The Apex of Solar Generation

LG NeON[®] R is a powerful, high-performing solar module. A cell structure that eliminates electrodes on the front to decrease the possibility of shading and increase the potential for light absorption. LG NeON[®] R features powerful performance and a streamlined design suitable for residential roofs.



Technical Data

Product Model	LG NeON [®] R 60cell				
Cell Type	Monocrystalline / N-type				
# of Cells	60cell (6 x 10)				
Maximum Power	385W**	380W*	375W	370W	365W
Module Efficiency	22.4%	22.0%	21.7%	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 1 st year: 0.3% annual degradation, 25 years: 90.8%				
Product Warranty	25 years				

* Available in Q2 2020
** Available in 2H 2020



Features

Near Zero LID

The LG NeON[®] R has been manufactured with N-type wafers, which use phosphorus. This leads to extremely low Light Induced Degradation (LID) rates.

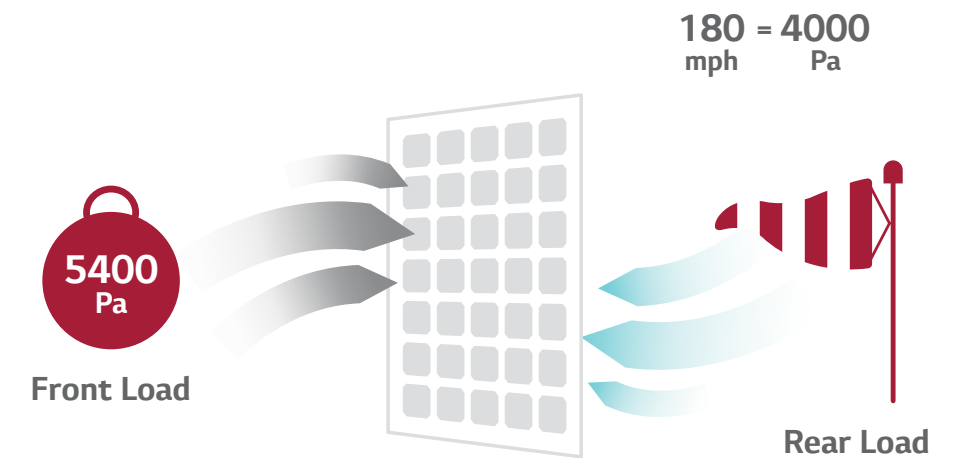


LG NeON[®] R / Phosphorus in N-Type wafers improves LID rates

Physical Durability

With a reinforced frame design, LG NeON[®] R modules can handle 112 Psf of snow load and 180 mph winds. In comparison, Hurricane Katrina (2005) produced a maximum speed of 175-mph winds.

With its reinforced frame design, LG NeON[®] R modules are designed to endure a front load of up to 5400 Pa and a rear load up to 4000 Pa.



Low Temperature Coefficient

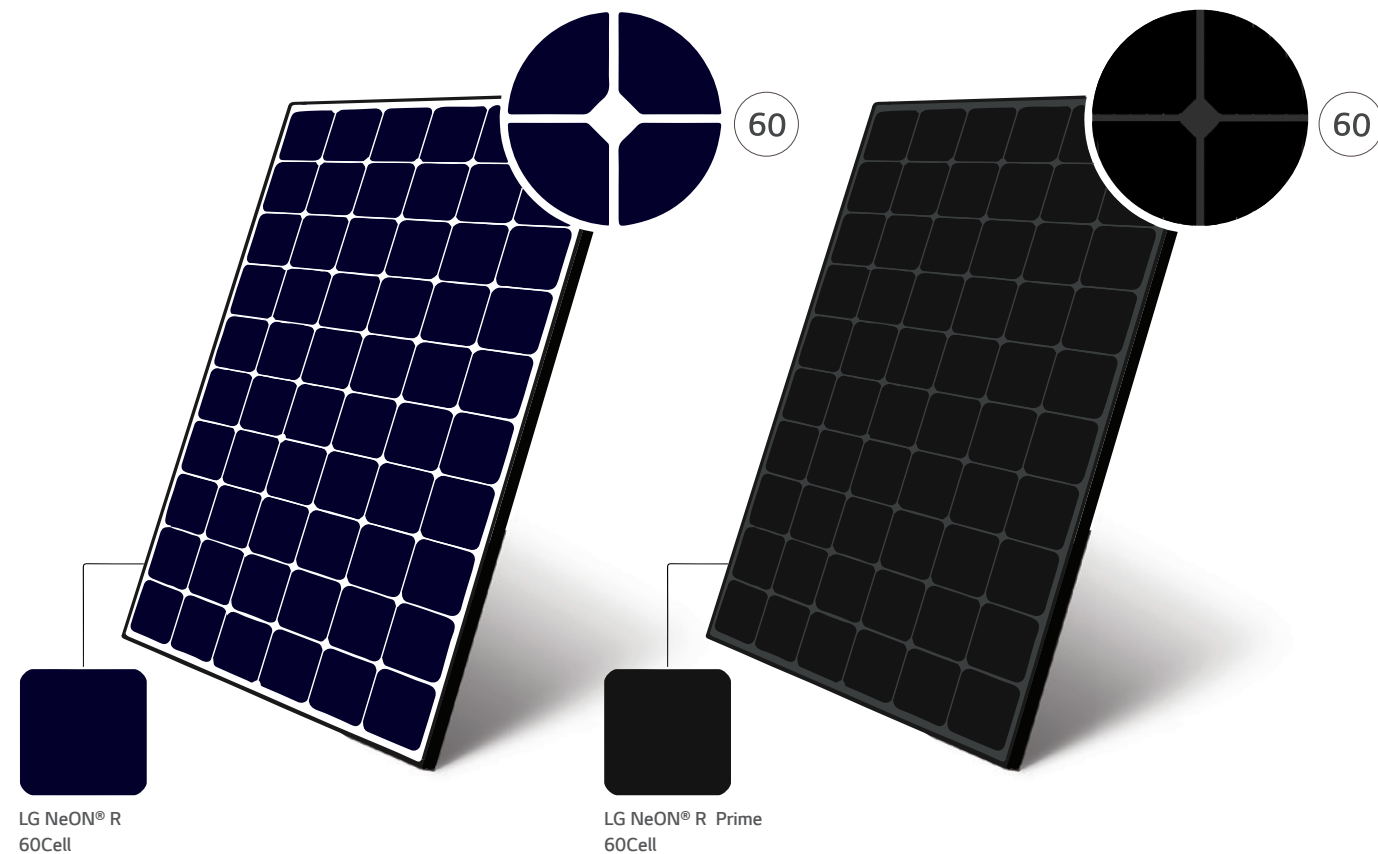
The LG NeON[®] R V5 modules boast a low -0.30% temperature coefficient, which means they perform well even on hot days.



LG NeON[®] R | LG NeON[®] R Prime

High Power Output, High-Efficiency Modules

NeON[®] R Prime is a powerful solar module that provides premium performance. The NeON[®] R Prime incorporates a cell structure without electrodes on the front to decrease the possibility of shading and increase the potential for light absorption. Providing added value for the customer beyond efficiency, this module features a 25-year warranty, outstanding durability, solid performance in real-world conditions and aesthetic design suitable for roofs.



Technical Data

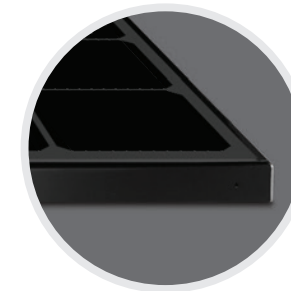
Product Model	LG NeON [®] R 60Cell					LG NeON [®] R Prime 60Cell				
Cell Type	Monocrystalline / N-type									
# of Cells	60cell (6 x 10)									
Maximum Power	385W**	380W*	375W	370W	365W	375W**	370W**	365W*	360W	355W
Module Efficiency	22.4%	22.0%	21.7%	21.4%	21.1%	21.7%	21.4%	21.1%	20.8%	20.6%
Dimensions (L x W x H)	1,700 x 1,016 x 40mm									
Weight	17.5kg									
Output Warranty of Pmax	Linear Warranty (First year: 98%, After 1st year: 0.3% annual degradation, 25 years: 90.8%)									
Product Warranty	25 years									

* Available in Q2 2020
** Available in 2H 2020

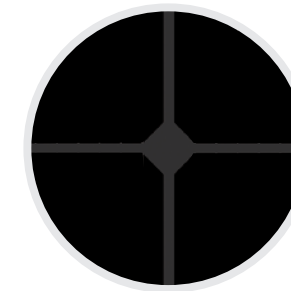
Features

All-Black Aesthetics

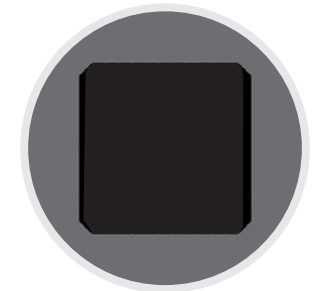
LG NeON[®] R Prime has been designed with aesthetics in mind: the lack of any electrodes on the front creates an improved, all-black modern aesthetic.



Black Frame



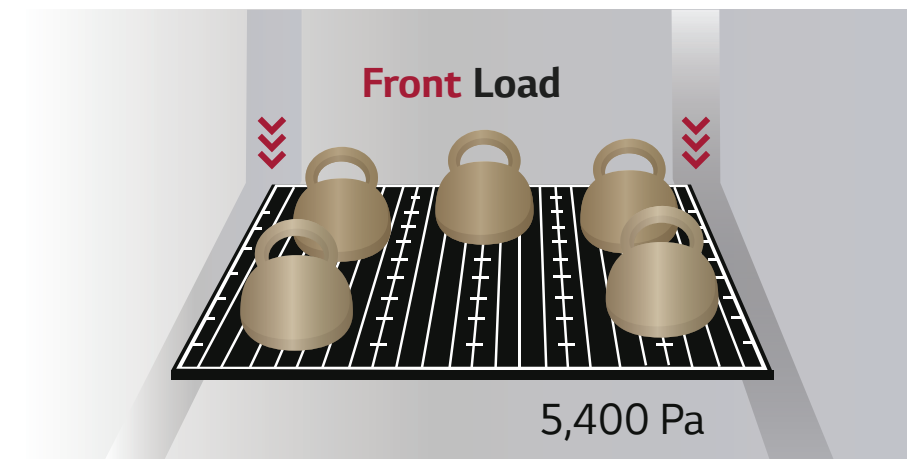
Black Back sheet



Black Cell with Cello Technology™

Long-term Durability

All LG Solar modules feature a reinforced frame design that allows for a strong load. The NeON[®] R Prime can handle a front load of 5,400 Pa and a rear load of 4,000 Pa. This is especially impressive considering our NeON[®] R Prime solar modules weigh less than 40lbs. The NeON[®] R Prime creates less stress on your roof due to its low weight, while still offering excellent durability.



Quality Guarantee

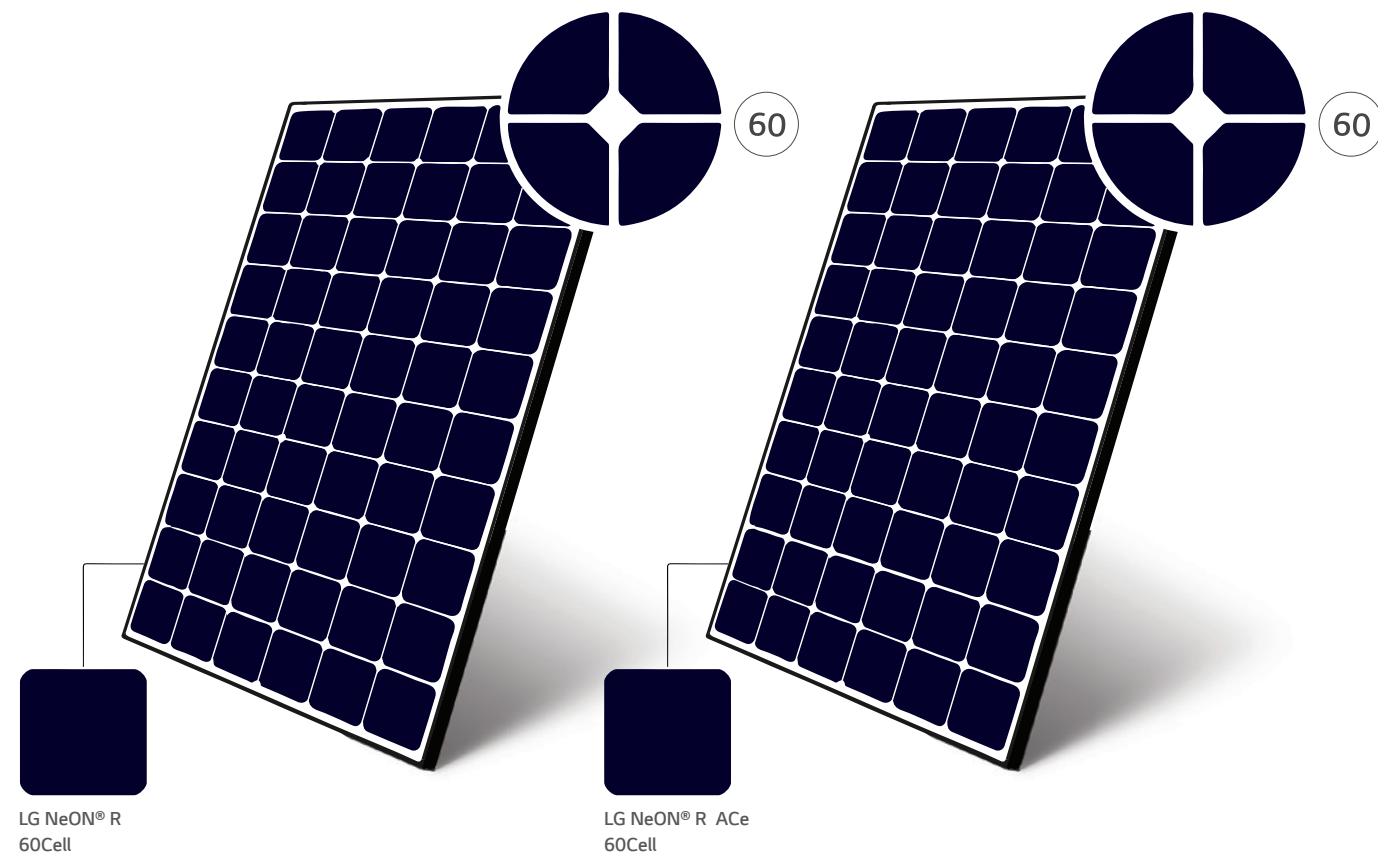
Before any LG Solar module leaves our factory, it undergoes a broad range of tests that guarantee high-level performance. All tests are carried out in our own in-house testing laboratory which meets very stringent industry requirements.



LG NeON® R | LG NeON® R ACe

High Power Output, High-Efficiency Modules

The LG NeON® R ACe is a high power smart AC module. The NeON® R ACe is extremely flexible for array design and is easy to install, offering an excellent solution for home installations.



LG NeON® R 60Cell

LG NeON® R ACe 60Cell



Technical Data

Product Model	LG NeON® R 60Cell					LG NeON® R ACe 60Cell		
Cell Type	Monocrystalline / N-type							
# of Cells	60cell (6 x 10)							
Maximum Power	385W**	380W*	375W	370W	365W	385W**	380W*	375W
Module Efficiency	22.4%	22.0%	21.7%	21.4%	21.1%	22.3%	22.0%	21.7%
Dimensions (L x W x H)	1,700 x 1,016 x 40mm							
Weight	17.5kg					19kg		
Output Warranty of Pmax	Linear Warranty (First year: 98%, After 1st year: 0.3% annual degradation, 25 years: 90.8%)							
Product Warranty	25 years							

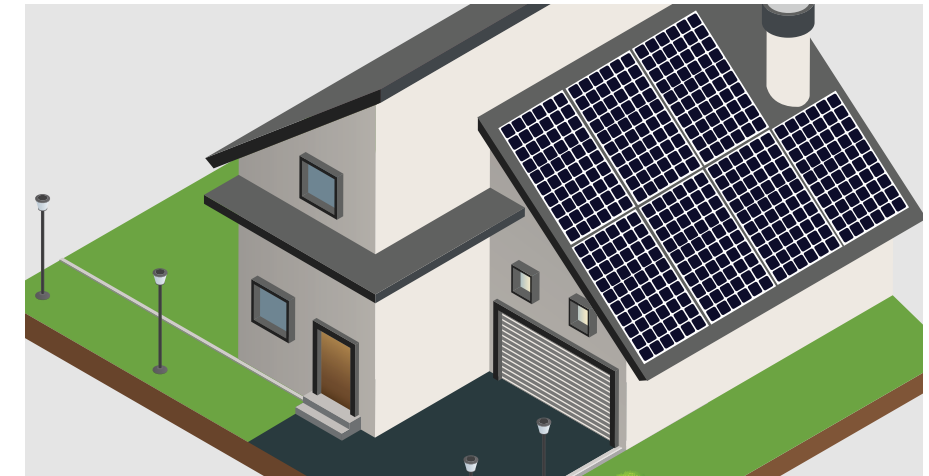
* Available in Q2 2020
** Available in 2H 2020



Features

Flexible Array Design

LG NeON® R ACe offers flexibility of array design. It provides a similar installation process as a DC module, with simple accessories and connection cable.



Connects To Your Devices

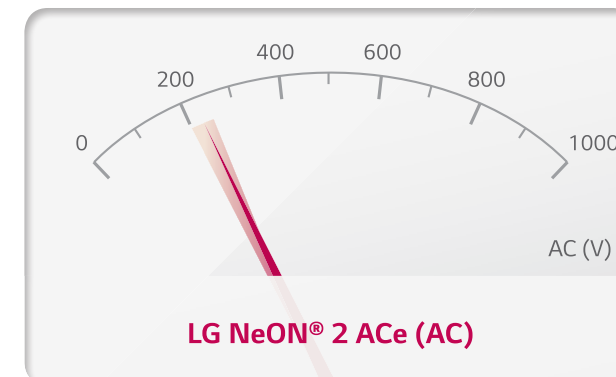
LG NeON® R ACe has easy and quick steps to connect with the internet. In addition, the LG NeON® R ACe is easy to register modules on the system.



Lower Voltage

Reduced risk of fire since the system uses low voltage and AC

No high voltage DC wiring with 600 or 1000 volts. All AC wiring with 208 or 240 volts.

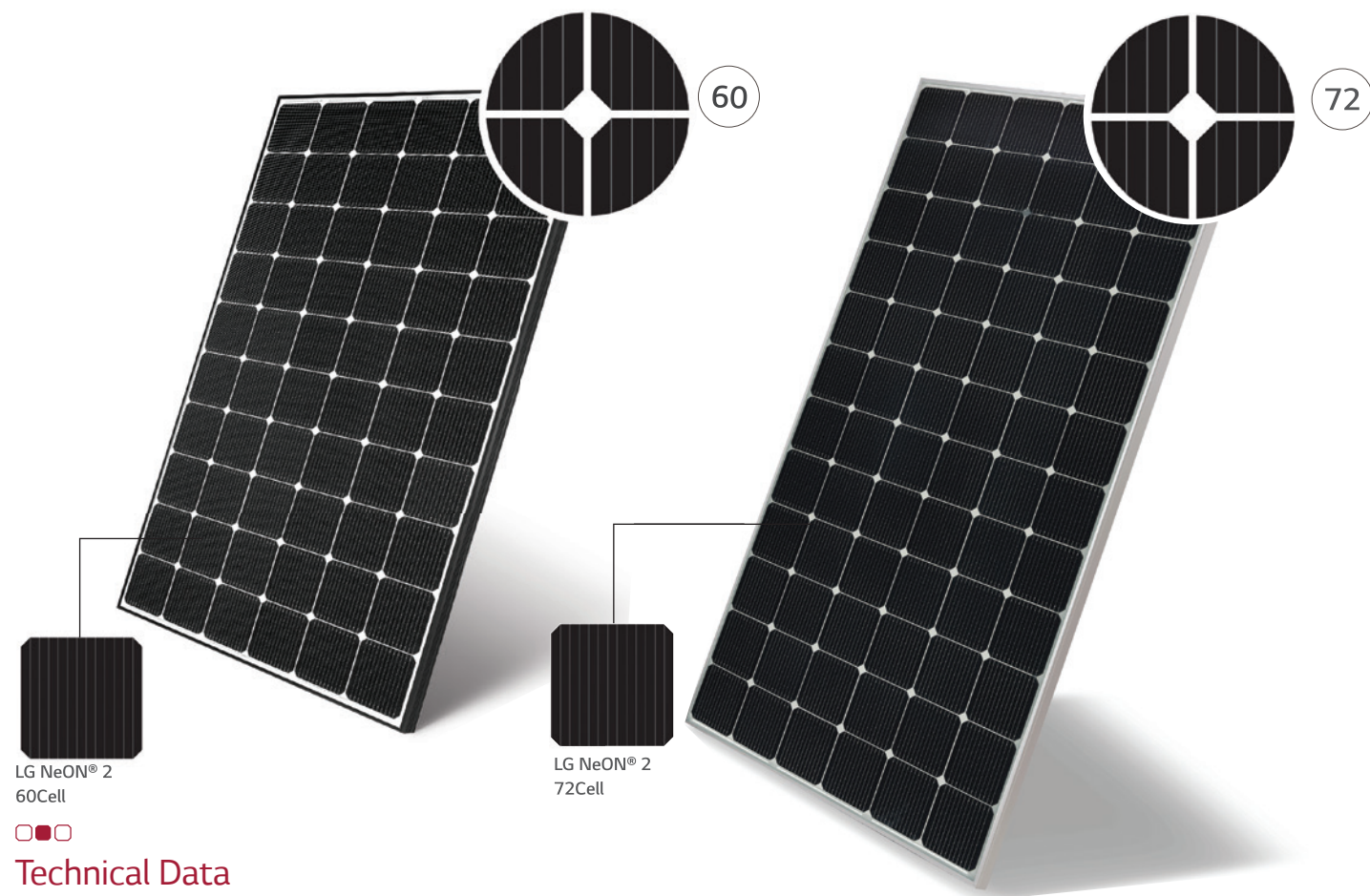


LG NeON[®] 2



LG Solar's Best-selling Module

The LG NeON[®] 2 is available in both 60-cell and 72-cell configurations, providing solutions for both residential and commercial projects.



Technical Data

Product Model	LG NeON [®] 2 60Cell						LG NeON [®] 2 72Cell			
Cell Type	Monocrystalline / N-type									
# of Cells	60cell (6 x 10)						72cell (6 x 12)			
Maximum Power	370W**	365W**	360W**	355W*	350W	345W	340W	420W**	415W*	410W
Module Efficiency	21.4%	21.1%	20.8%	20.7%	20.4%	20.1%	19.8%	20.3%	20.0%	19.8%
Dimensions (L x W x H)	1,686 x 1,016 x 40 mm***						2,024 x 1,024 x 40 mm			
Weight	17.1kg						20.3kg			
Output Warranty of Pmax	Linear Warranty (First year: 98%, After 1st Year: 0.33% annual degradation, 25 years: 90.08%)									
Product Warranty	25 years									

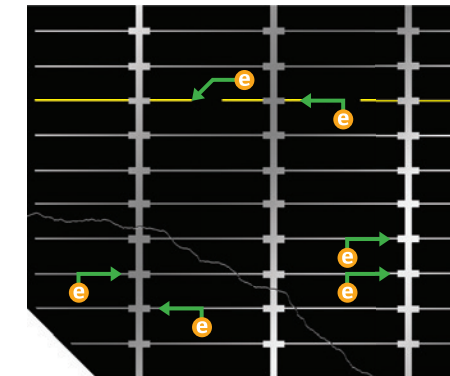
* Available in Q2 2020
 ** Available in 2H 2020
 *** 2H of 2020 module dims will be 1,700 x 1,016 x 40mm



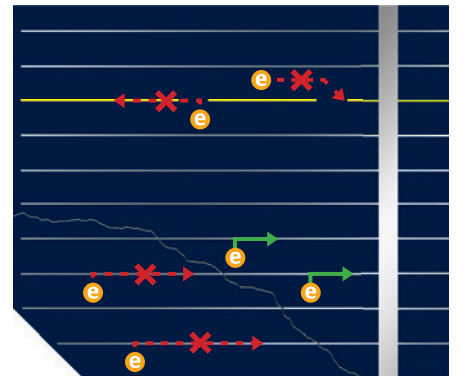
Features

Long-term Reliability

Micro-cracks in finger electrodes occur when there is mechanical or thermal stress on solar cells. The LG NeON[®] 2 is less vulnerable to performance losses due to environmental damage due to the strategic layout of wires.



Multiple electrical paths maintained by wires



Conventional 3 Ribbons

High-Efficiency Modules

LG NeON[®] 2 modules are high-efficiency modules that generate more power from the same amount of sunlight than lower-efficiency modules of the same size.

That extra efficiency enables the modules to produce the same amount of energy with 60 cells as many modules produce with 72 cells. High-efficiency modules are an advantage on smaller roofs or on roofs that experience some shading. They can also leave room for array expansion in the future.



LG Adds Hunstville, AL to NeON[®] 2 Module Factories

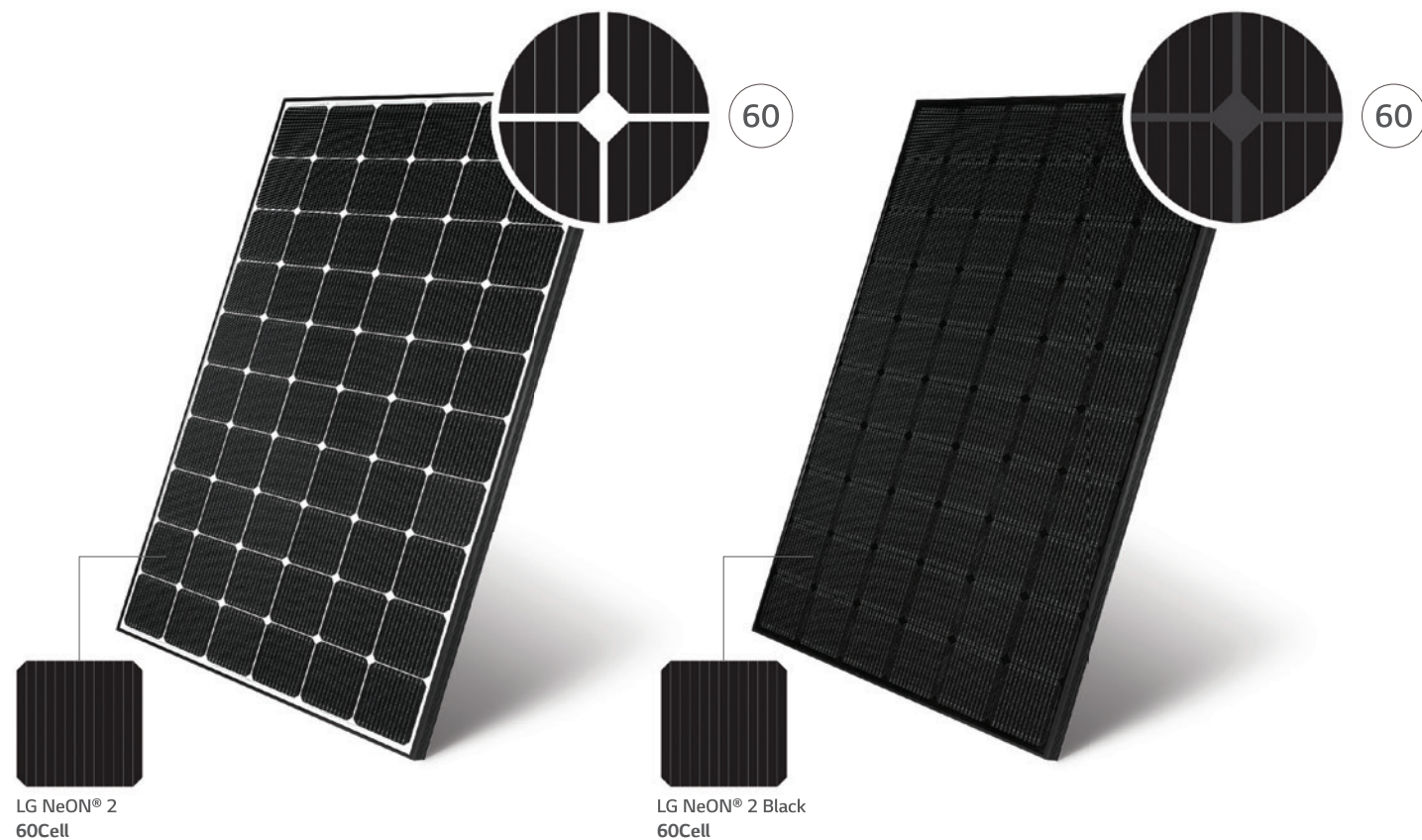
When you present LG Solar modules to your prospective customers, you point out our global brand's bankability and the technological advantages NeON[®] 2 modules provide. Now you can tell them more good news: In addition to the NeON[®] 2 factory in Korea, 500 MegaWatts of NeON[®] 2 modules are now being manufactured in the United States. Additional inventory will be supplied from our South Korea factory.

LG NeON[®] 2 | LG NeON[®] 2 Black



LG Solar's Best-selling Module

The NeON[®] 2 is LG's best-selling solar module. LG's award-winning Cello Technology[™] makes the 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													
# of Cells	60cell (6 x 10)								60cell (6 x 10)					
Maximum Power	370W**	365W**	360W**	355W*	350W	345W	340W	350W**	345W**	340W*	335W	325W	320W	
Module Efficiency	21.4%	21.1%	20.8%	20.7%	20.4%	20.1%	19.8%	20.3%	20.0%	19.7%	19.6%	19.0%	18.7%	
Dimensions (L x W x H)	1,686 x 1,016 x 40 mm***													
Weight	17.1kg													
Output Warranty of Pmax	Linear Warranty (First year: 98%, After 1st year: 0.33% annual degradation, 25 years: 90.08%)													
Product Warranty	25 years													

* Available in Q2 2020
 ** Available in 2H 2020
 *** 2H of 2020 module dims will be 1,700 x 1,016 x 40mm

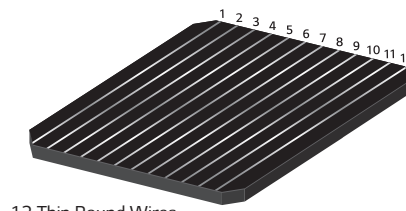


Features

Cello Technology[™]



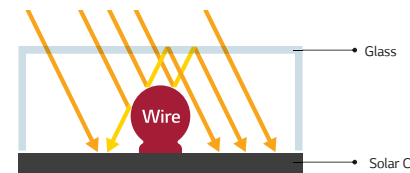
Cello Technology[™]



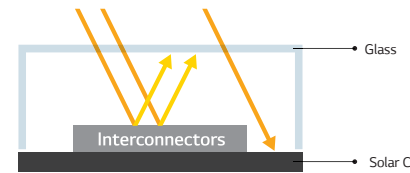
12 Thin Round Wires

Light Scattered More Effectively

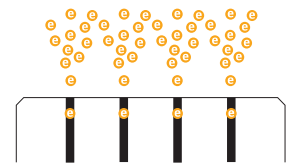
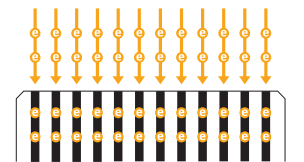
LG NeON[®] 2



Conventional 3 Ribbons



More Pathways for Electrons

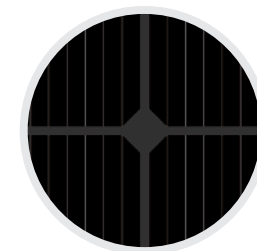


Attractive All-Black Aesthetic

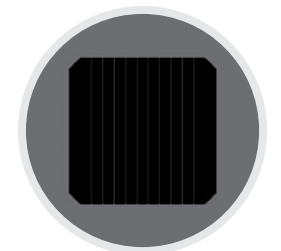
The LG NeON[®] 2 Black is equipped with a matte black frame, black back sheet and black cells with thin electrodes. The NeON[®] 2 Black offers a streamlined, elegant rooftop design.



Matte Black Frame



Black Back sheet



Black Cell with Cello Technology[™]

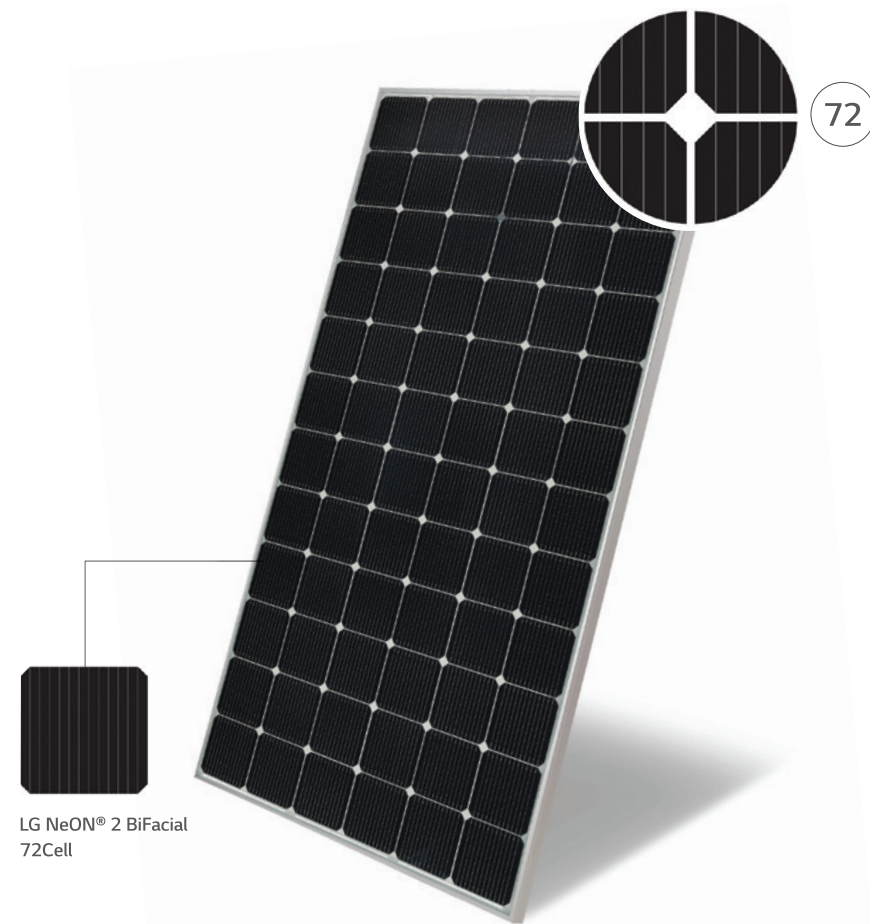


LG NeON[®] 2 BiFacial



Double-sided Generation

The LG NeON[®] 2 BiFacial has a double-sided cell structure with a transparent back sheet. Modules generate energy from the front and back side.



LG NeON[®] 2 BiFacial 72Cell



Technical Data

Product Model	LG NeON [®] 2 BiFacial 72Cell			
Cell Type	Monocrystalline / N-type			
# of Cells	72cell (6 x 12)			
Maximum Power	415W**	410W**	405W*	400W
Module Efficiency	20.0%	19.8%	19.5%	19.3%
Dimensions (L x W x H)	2,024 x 1,024 x 40 mm			
Weight	20.3kg			
Output Warranty of Pmax	Linear Warranty (*Under BiFi 100 condition, First year: 104.4%, After 1st year: 0.35% annual degradation, 25 years: 95.4%)			
Product Warranty	25 years			

* Available in Q2 2020

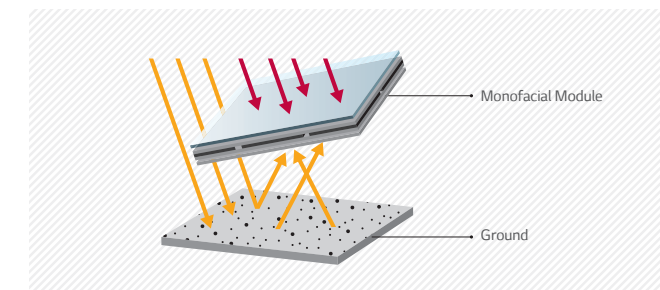
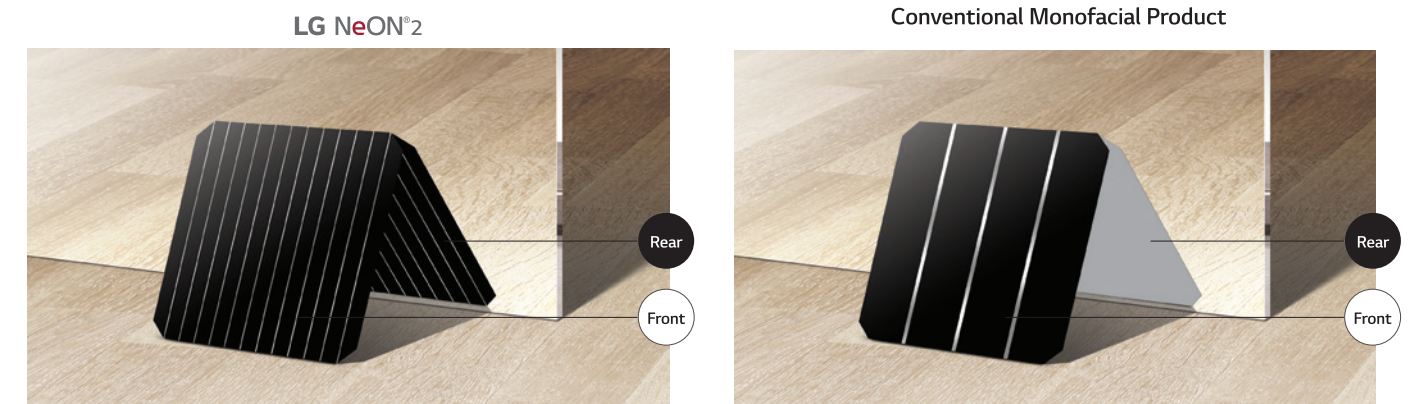
** Available in 2H 2020



Features

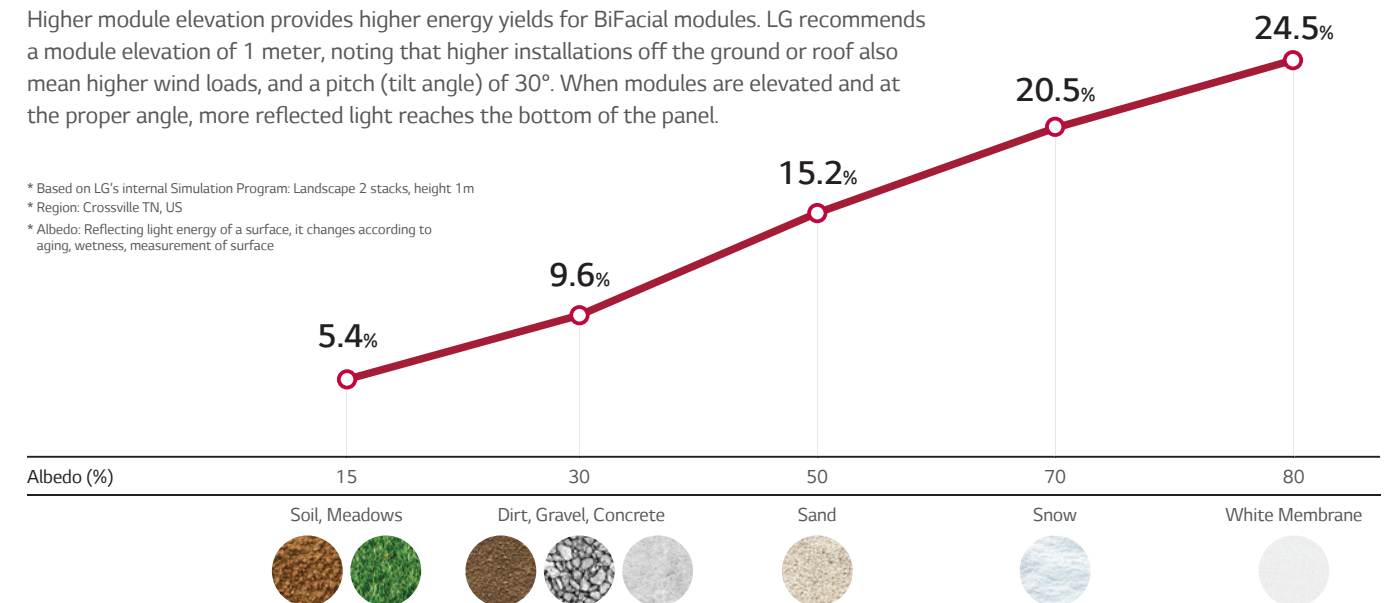
N-type Cell (double-sided generation cell structure)

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



Module Elevation and Pitch

Higher module elevation provides higher energy yields for BiFacial modules. LG recommends a module elevation of 1 meter, noting that higher installations off the ground or roof also mean higher wind loads, and a pitch (tilt angle) of 30°. When modules are elevated and at the proper angle, more reflected light reaches the bottom of the panel.



* Based on LG's internal Simulation Program: Landscape 2 stacks, height 1m

* Region: Crossville TN, US

* Albedo: Reflecting light energy of a surface, it changes according to aging, wetness, measurement of surface



REFERENCE

Residential



USA



Thailand_Bangkok



Netherland_Venlo



Thailand_Bangkok



Germany_Leipzig



Germany_Grasberg



Switzerland_Kolliken

REFERENCE

Commercial

Utility



Thailand_Bangkok



USA_Easton



Australia_Sydney



Korea_Sejong



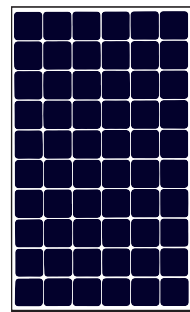
Japan_Hokkaido



Japan_Aomori

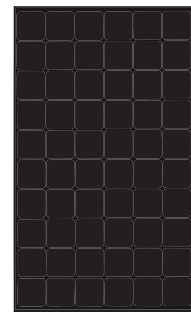
PRODUCT LINE - UP

LG NeON[®]R



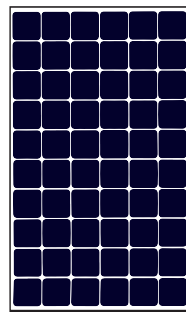
385W**
380W*
375W
370W
365W
360W

LG NeON[®] R
60Cell



375W**
370W**
365W*
360W
355W
350W

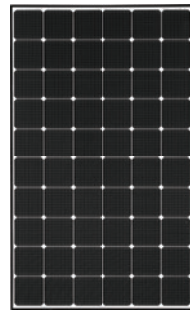
LG NeON[®] R Prime
60Cell



385W**
380W*
375W

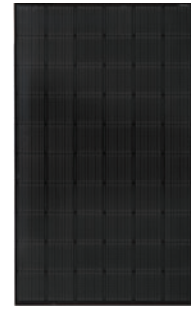
LG NeON[®] R ACe
60Cell

LG NeON[®]2



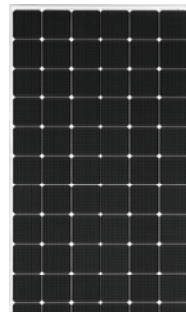
370W**
365W**
360W**
355W*
350W
345W
340W
335W
330W

LG NeON[®] 2
60Cell



350W**
345W**
340W**
335W
325W
320W
315W

LG NeON[®] 2 Black
60Cell



420W**
415W*
410W

LG NeON[®] 2 72Cell

LG NeON[®]2 BiFacial



415W**
410W**
405W*
400W

LG NeON[®] 2 BiFacial
72Cell

* Available in Q2 2020
** Available in 2H 2020

LG Solar Is Your Renewable Energy Partner

LG Solar has conducted continued solar energy research for the last 30 years. By synergizing this research with more than 50 years of experience in the electronics industry, LG has developed premium solar modules that provide long-term quality and high energy output.

Contact Us



U.S.A.

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TEL +1-855-854-7652
<https://www.lg.com/us/solar>



When you go solar, ask for the brand you can trust: **LG Solar**