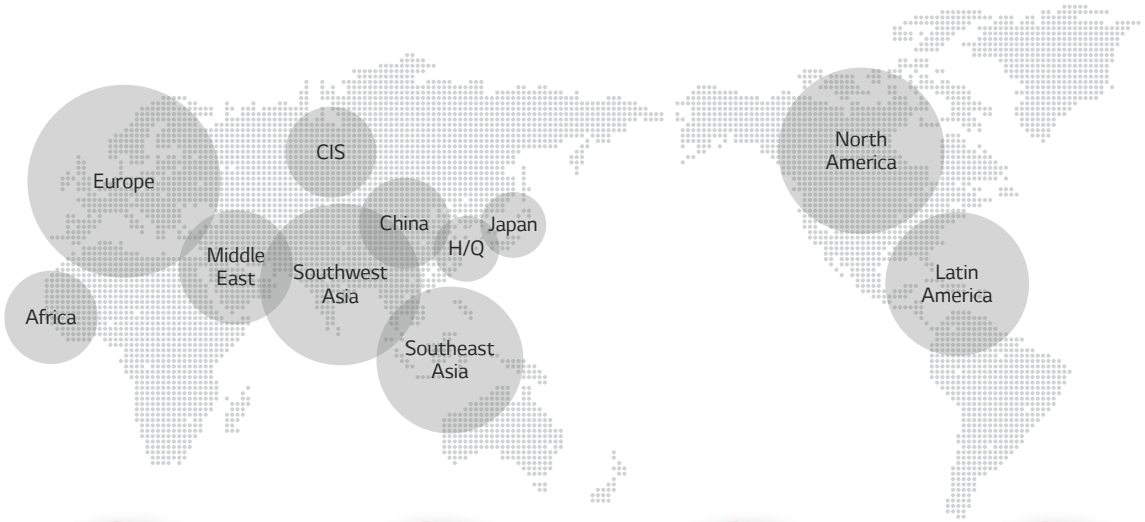

LG Solar
2021 Product Catalog
Unplug from limitations.
Plug into the perfect fit.
Flip the Switch
LG
Life's Good
www.lg.com/solar

Contents

Unplug from unreliable. Plug into unstoppable with a name you can trust.

LGE has manufacturing and production plants, sales offices, and research and development facilities in 128 countries, fully supporting our businesses in over 200 countries. LGE strives to change the lives and businesses of our customers around the world with innovative technologies and products. Backed by the corporation's global presence and financial stability, LGE will provide promising service and support for the lifetime of your solar solutions and continue the positive and productive relationship to enhance mutual benefit.



Global Operations 142

Subsidiaries 139

Branch Offices 13

Design Centers 6

REVENUE

$53 Billion (2019)

LGE consolidated basis, exchange rate KRW 1,108.51 per USD

WORKFORCE

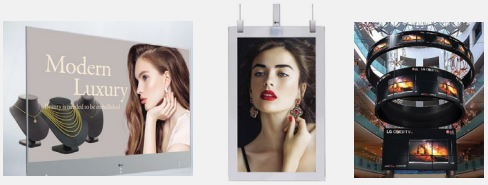
74,000+

Plug into innovation.

LG is a global leader for innovation in electronics, mobile communication devices and home appliances that enhance lives every day.

Information Display

- OLED Signage
- Digital Signage
- LED Digital Board
- Hotel TV



Energy Solutions*

- Solar
- ESS
- EMS

IT Business Unit

- Monitor
- PC
- Projector
- Cloud Device
- Medical Display

Business Solutions

Home Entertainment

Vehicle Component Solutions

Home Appliance & Air Solution

Mobile Communications

BS
HE
VS
H&A
MC
LG Electronics

*Integrated Solution Case

Plug into experience.

Founded in 1958, LG Electronics is a global technology innovator in consumer electronics, mobile communication devices and home appliances. In order to move toward a sustainable future, LG Electronics has expanded its presence in the energy business and made solar power the next growth engine. Since the first polycrystalline solar cell research and development in 1985, we've spent 35 years trying to deliver industry-leading efficiency and reliable solar solutions.

Milestones
LGE Energy History

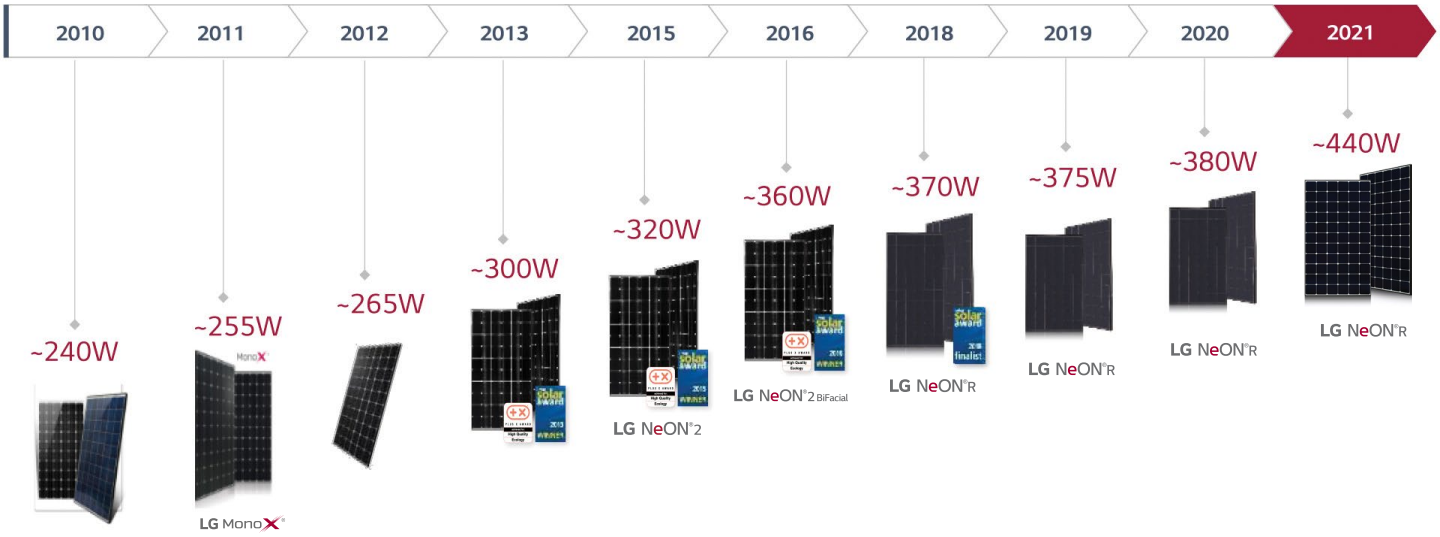
- **1958** — LGE Founding
- **1985** — R & D Polycrystalline Solar Cell
- **1989** — Solar power plant establishment
- **1995** — Development of solar energy for public purpose
- **2007** — 14 MW solar power plant operation (Korea)
- **2009** — TÜV, UL solar cell test certification
- **2010** — Start mass production of solar panels
- **2013** — Intersolar photovoltaics award
- **2014** — Creation of an energy business center
- **2015** — Release of NeON® 2 model Intersolar award with Cello Technology™
- **2016** — Intersolar award with NeON® 2 BiFacial model
- **2017** — Release of NeON® R model
- **2021** — NeON® R reaches 22.3% efficiency

LG U.S. Local Plant Operation

LG invested $300M to build LG Solar's production plant in Huntsville, USA, in 2019 and produces one million panels every year. Cells and panels are both designed and manufactured using LG's technology. The production capacity of LG's plant in the U.S. exceeds 500 MW/year for high-performance solar panels.

Plug into industry-leading solar technology.

LG started with a vision of becoming a global leader in the electronics and technology industries, enriching customer lives and driving innovation. In particular, to deliver industry-leading panel efficiency, LG has consistently invested in R&D, resulting in a 200 W increase in output over the past decade from 240 W to 440 W. Our technology leadership and competitive edge in the industry are shown through our R&D capabilities, which have led to a steady rise in energy output for over 10 years.



LG Solar Awards & Innovation in Technology

2020

ENERGY STAR AWARD 2020
PARTNER OF THE YEAR
Sustained Excellence

2020 ENERGY STAR® Partner of the Year

2019

PIA'19

2019 Architectural Product Innovation

pv magazine AWARD 2019 MODULES

pv magazine Award 2019

A|N Best of Products EDITORS' PICK

Architect's Newspaper Best of Products

2019 Editors' Choice GREEN BUILDER HOT50 PRODUCTS

Green Builder's Hot 50 Products Award—LG ESS

Energy Manager Today EMT AWARDS 2019

2019 Energy Manager Today Awards

Plug into peace of mind.

Our solar panels are backed by a 25-year limited warranty that consists of product, performance, and labor* coverage.

Product

Our commitment to controlling every step of the manufacturing process from start to finish ensures that we build and deliver a quality product every time. Thanks to thorough testing processes, LG ensures that each panel off the production line will perform well in real-world conditions. No solar panels leave our factory until our quality-control specialists approve their performance. LG's high standards result in world-class products for our customers. That's why we are able to offer an outstanding 25-year product warranty.

Performance

You want quality solar panels to power your home with clean energy for years, so your panels' ability to generate the electricity you need over the long term is critical. All solar panels degrade over time, but LG's products are built to experience low degradation rates. In fact, during the first year after installation, our LG NeON® R model has a degradation rate of only -0.25% per year, and our NeON® 2 has a degradation rate of -0.33% per year.

Labor

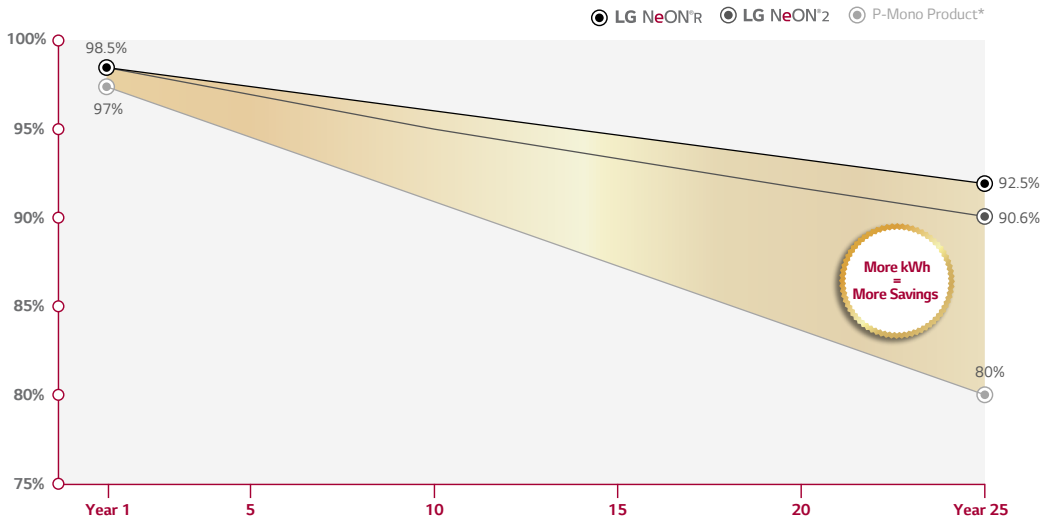
In the rare case that a panel needs to be replaced or repaired, LG won't just cover the cost of the materials; we'll also cover labor costs up to $450. When you choose LG solar products, you can feel confident that you are making a smart choice and investing in a quality product that will benefit your home for years to come.

Transferable Warranty

The warranties provided in the manufacturer's warranty are transferable. This means that when an owner sells the home with LG panels, owners of the property will continue to enjoy the LG warranty protection.

Higher Performance over the Lifetime of the System

LG panels degrade slower than the industry average, ensuring our customers have long-lasting high performance.



*Average from 11 Module Manufacturers

*Labor is excluded from NeON® H Commercial Products (E6).

LG NeON® Product Lineup

LG NeON®R

390W
395W
400W
405W

LG NeON® R
60 Cell (Q1C-A6)

375W
380W
385W
390W

LG NeON® R Prime
60 Cell (Q1K-A6)

435W
440W

LG NeON® R
66 Cell (QAC-A6)

420W
425W

LG NeON® R Prime
66 Cell (QAK-A6)

LG NeON®2

370W
375W
380W

LG NeON® 2
60 Cell (NIC-A6)

365W
370W
375W

LG NeON® 2 Black
60 Cell (N1K-A6)

LG NeON®H

440W
445W
450W
455W

LG NeON® H
144 Half-Cut Cell (N2W-E6)

430W
435W
440W
445W

LG NeON® H BiFacial
144 Half-Cut Cell (N2T-E6)

LG NeON®2 ACe

375W
380W

LG NeON® 2 ACe
60 Cell (M1C-A6)

370W
375W

LG NeON® 2 ACe Black
60 Cell (M1K-A6)

LG NeON®R ACe

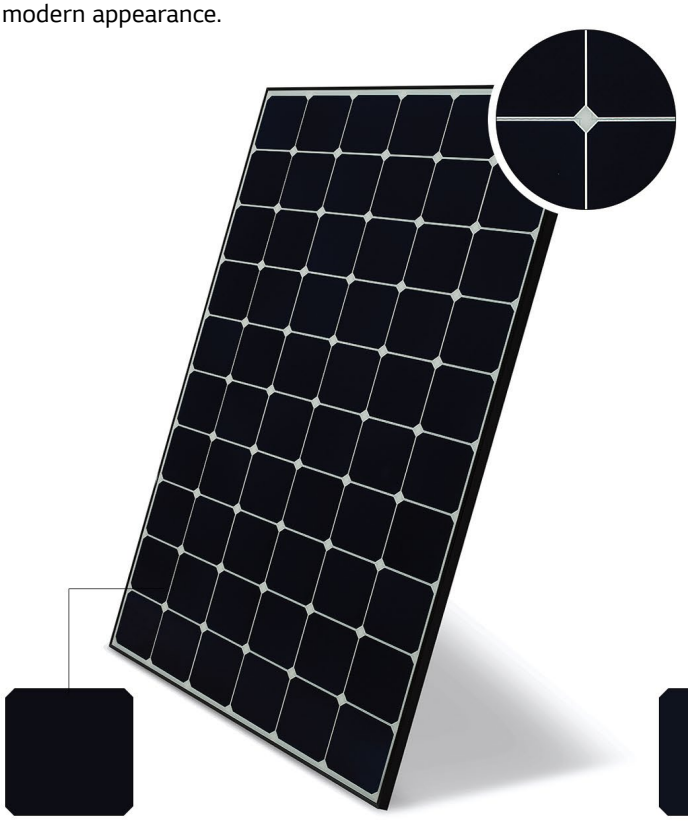
395W
400W

LG NeON® R ACe
60 Cell (A1C-A6)

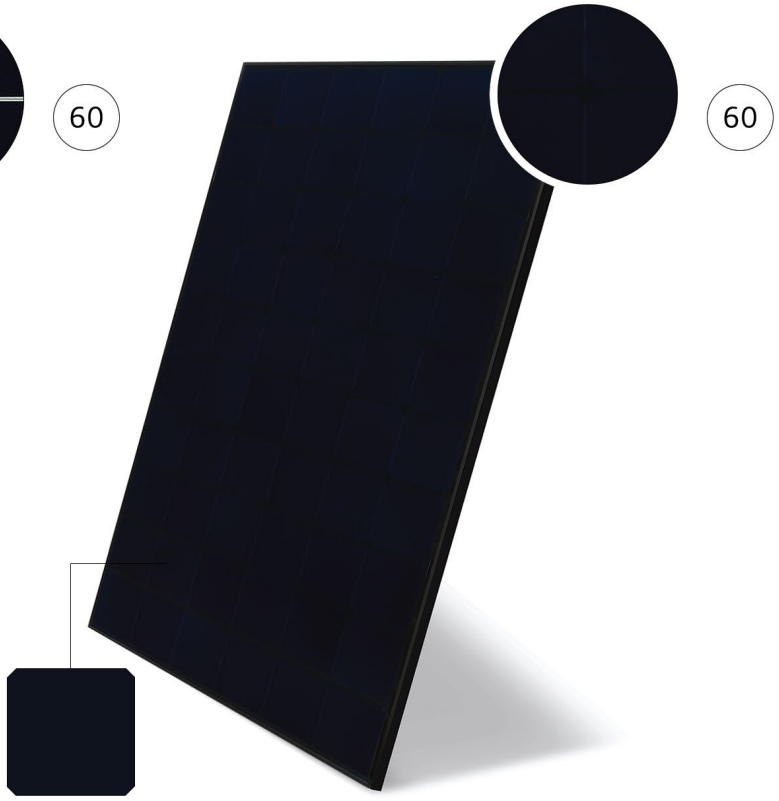
LG NeON®R | LG NeON®R Prime

High Power Output, High-Efficiency Modules

The LG NeON® R is a high-power luxury solar panel featuring Back Contact Technology™. The advanced cell structure locates all of the panel's electrodes on the back side. No front-panel electrodes are present to affect light capture. This also provides a sleek, modern appearance.



LG NeON® R
60 Cell



LG NeON® R Prime
60 Cell

Technical Data

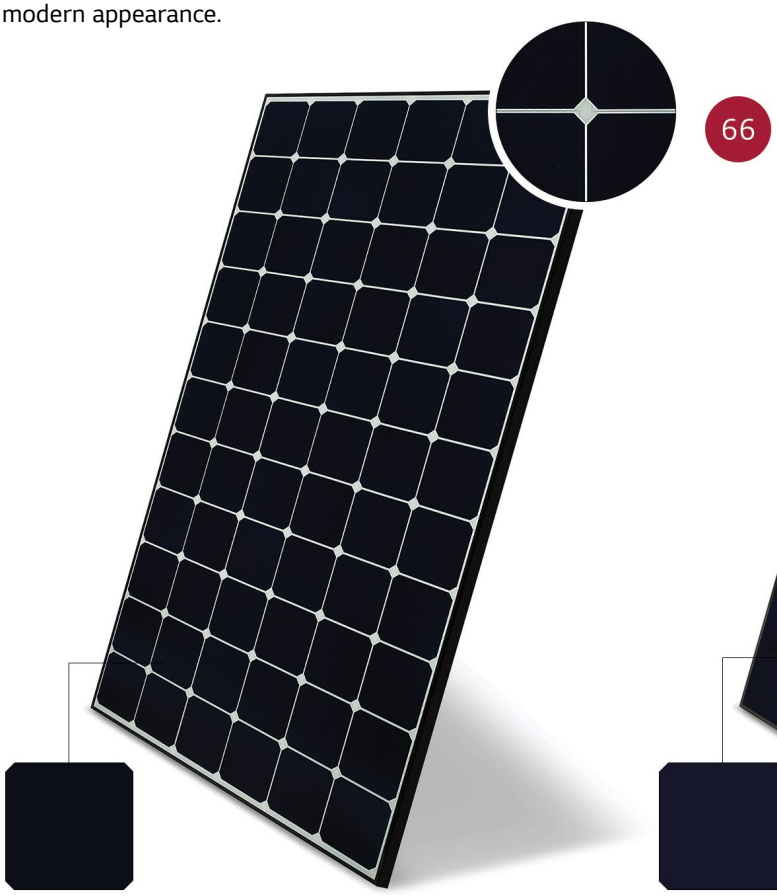
Product Model	LG NeON® R (Q1C-A6)				LG NeON® R Prime (Q1K-A6)			
Cell Type	Monocrystalline / N-type				Monocrystalline / N-type			
# of Cells	60 Cell (6 x 10)				60 Cell (6 x 10)			
Maximum Power	**390W**	**395W**	**400W**	**405W**	**375W**	**380W**	**385W**	**390W**
Module Efficiency	21.5%	21.8%	22.1%	22.3%	20.7%	21.0%	21.2%	21.5%
Dimensions (L x W x H)	1,740mm x 1,042mm x 40mm				1,740mm x 1,042mm x 40mm			
Weight	18.5kg				18.5kg			
Frame | Backsheet	Black | White				Black | Black			
Output Linear Warranty	1st year 98.5%, from 2-24th year: -0.25%/year down, 92.5% at year 25							
Product Warranty	25-Year Limited							

New

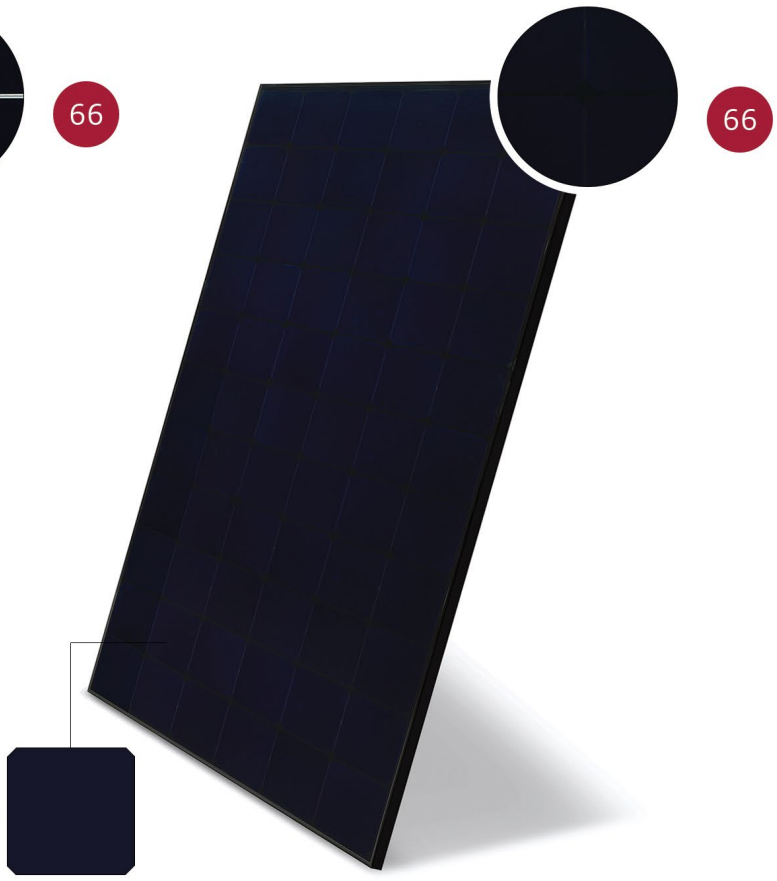
LG NeON®R | LG NeON®R Prime

High Power Output, High-Efficiency Modules

The LG NeON® R is a high-power luxury solar panel featuring Back Contact Technology™. The advanced cell structure locates all of the panel's electrodes on the back side. No front-panel electrodes are present to affect light capture. This also provides a sleek, modern appearance.



LG NeON® R
66 Cell



LG NeON® R Prime
66 Cell

Technical Data

Product Model	LG NeON® R (QAC-A6)		LG NeON® R Prime (QAK-A6)	
Cell Type	Monocrystalline / N-type		Monocrystalline / N-type	
# of Cells	66 Cell (6 x 11)		66 Cell (6 x 11)	
Maximum Power	**435W**	**440W**	**420W**	**425W**
Module Efficiency	21.9%	22.1%	21.1%	21.4%
Dimensions (L x W x H)	1,910mm x 1,042mm x 40mm		1,910mm x 1,042mm x 40mm	
Weight	20.5kg		20.5kg	
Frame | Backsheet	Black | White		Black | Black	
Output Linear Warranty	1st year 98.5%, from 2-24th year: -0.25%/year down, 92.5% at year 25			
Product Warranty	25-Year Limited			

LG NeON® R Features

25 YEAR
PRODUCT • PERFORMANCE • LABOR
WARRANTY

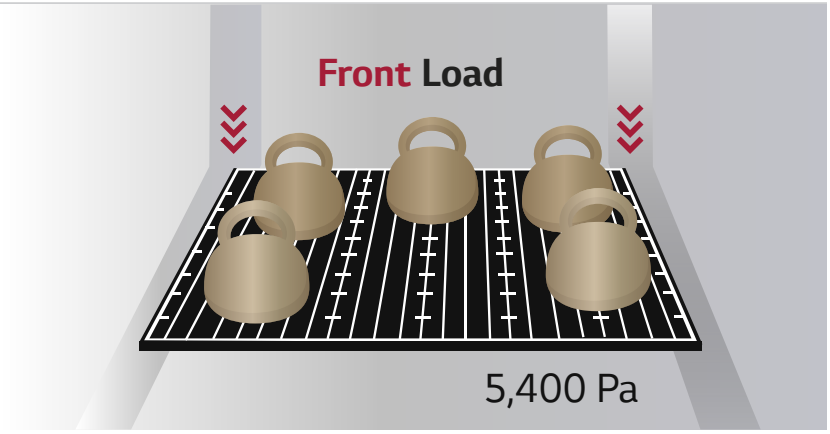
Near Zero LID

The LG NeON® R is 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

Long-Term Durability

All LG Solar panels feature a reinforced frame design that withstands high loads. The NeON® R models 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 solar panels weigh around 45 lbs or less. The NeON® R panels create less stress on your roof due to their low weight, while still offering excellent durability.



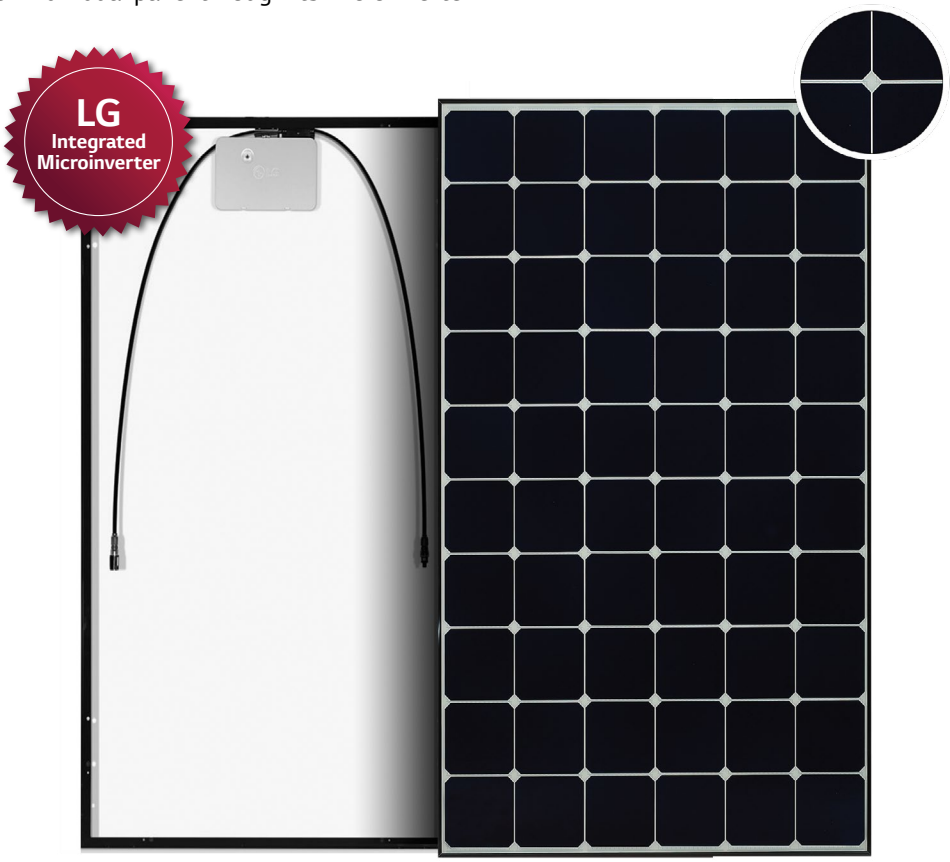
Low Temperature Coefficient

The LG NeON® R panels boast a low -0.29% temperature coefficient, which means they perform well even on hot days.

LG NeON® R ACe

Individual solar panels can be managed in real time, in the palm of your hand.

The LG NeON® R ACe is an integrated solar panel and microinverter in one designed for easy installation and use. The ACe is a smart AC panel that is easy to install and monitor, provides increased flexibility for array design and is an excellent solution for home installation. This panel is easily managed with LG EnergyVu software via the internet. When a problem occurs, it can be easily solved by tracking each individual panel through its microinverter.



LG NeON® R ACe
60 Cell

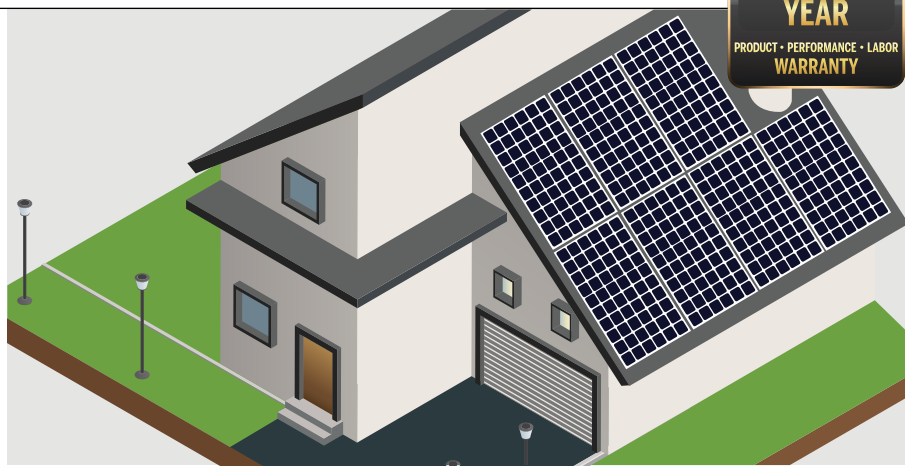
Technical Data

Product Model	LG NeON® R ACe (A1C-A6)		
Cell Type	Monocrystalline / N-type		
# of Cells	60 Cell (6 x 10)		
Maximum Power	**395W**	**400W**	320W (Wac) Microinverter
Module Efficiency	21.8%	22.1%	
Dimensions (L x W x H)	1,740mm x 1,042mm x 40mm		
Weight	20.1kg		
Frame | Backsheet	Black | White		
Output Linear Warranty	1st year 98.5%, from 2-24th year: -0.25%/year down, 92.5% at year 25		
Product Warranty	25-Year Limited		

LG NeON® R ACe Features

Flexible Array Design

LG NeON® R ACe offers flexibility of array design. Installation is similar to the process for DC panels, 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 makes it easy to register panels on the system.

EnerVu, an energy monitoring/installation system, not only provides simple monitoring, but it gives detailed analysis of power production, self-consumption, electricity bills savings, sales volume, identification of issues related to power companies, and serves as a personalized installation guide.

Lower Voltage

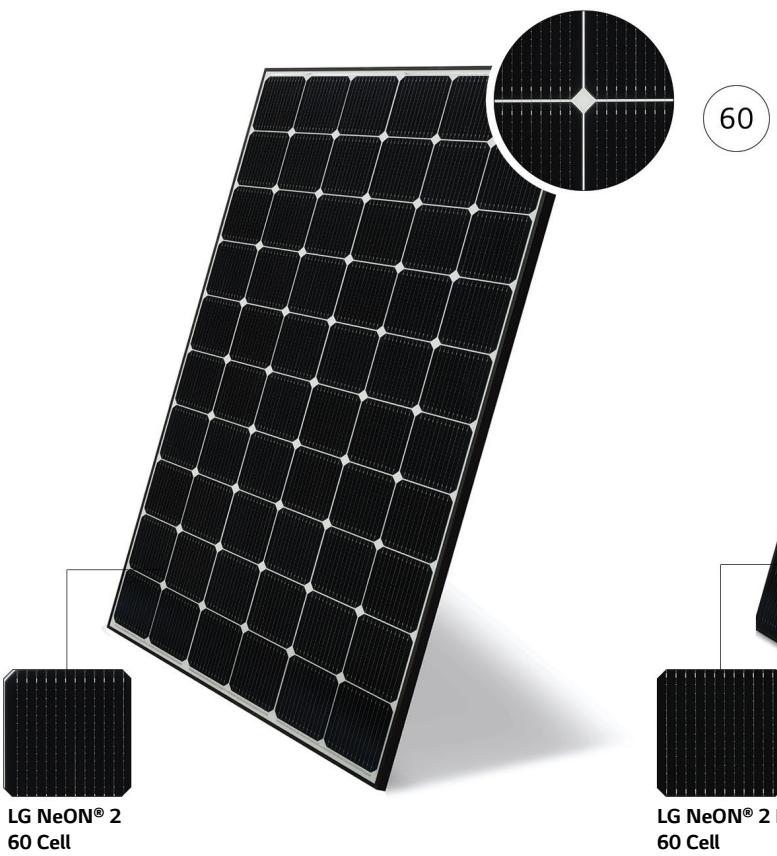
Reduced risk of fire since the system uses low voltage and AC.

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

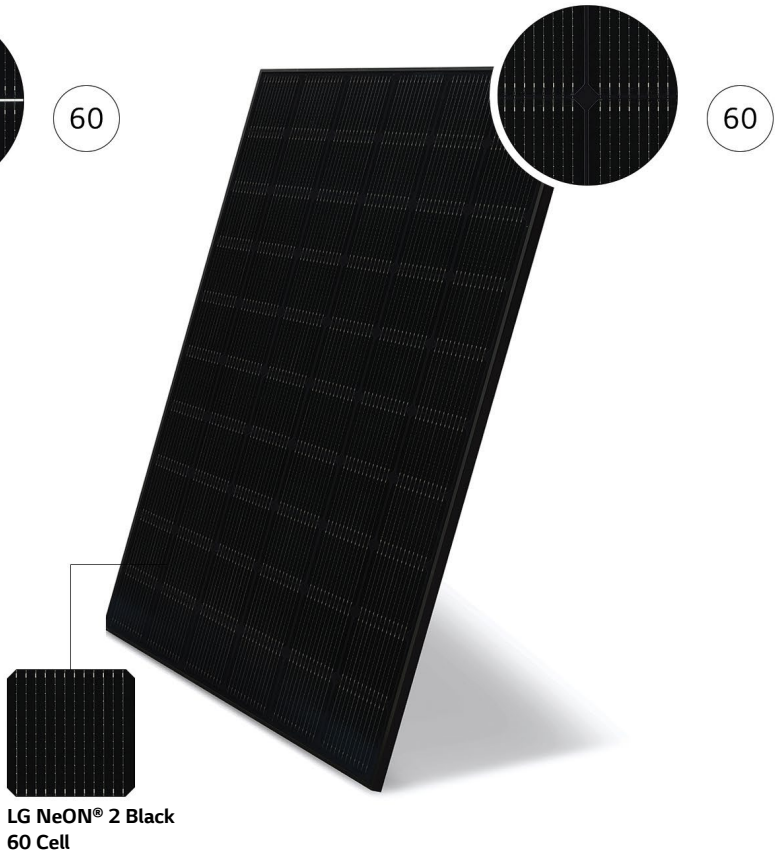
LG NeON®2 | LG NeON®2 Black

LG's NeON® 2 Cello Technology™ maximizes current flow.

LG NeON® 2 solar panels provide high efficiency, high power output, appealing aesthetics and reliable performance. The panels incorporate Cello Technology™ (Cell connection with Electrically Low loss, Low stress and Optical absorption enhancement), developed by LG to increase power output and improve panel appearance.



LG NeON® 2
60 Cell



LG NeON® 2 Black
60 Cell

Technical Data

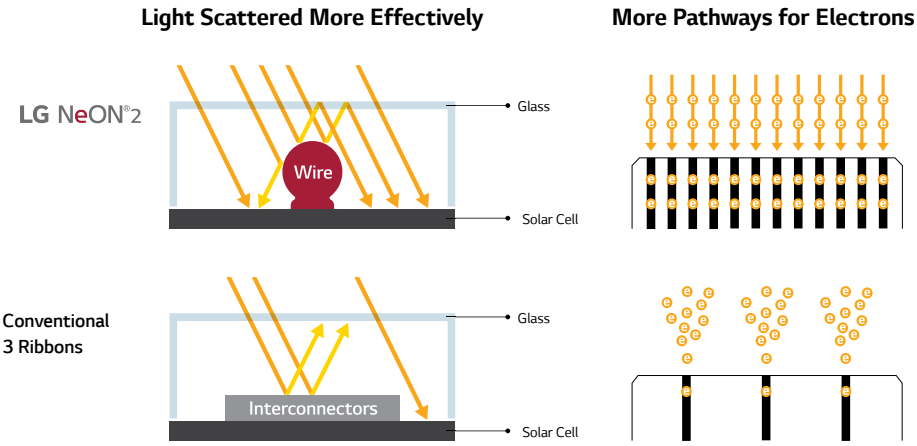
Product Model	LG NeON® 2 (N1C-A6)			LG NeON® 2 Black (N1K-A6)		
Cell Type	Monocrystalline / N-type			Monocrystalline / N-type		
# of Cells	60 Cell (6 x 10)			60 Cell (6 x 10)		
Maximum Power	**370W**	**375W**	**380W**	**365W**	**370W**	**375W**
Module Efficiency	20.4%	20.7%	21.0%	20.1%	20.4%	20.7%
Dimensions (L x W x H)	1,740mm x 1,042mm x 40mm			1,740mm x 1,042mm x 40mm		
Weight	18.6kg			18.6kg		
Frame | Backsheet	Black | White			Black | Black		
Output Linear Warranty	1st year 98.5%, from 2-24th year: 0.33%/year down, 90.6% at year 25					
Product Warranty	25-Year Limited					

LG NeON® 2 Features

25 YEAR
PRODUCT • PERFORMANCE • LABOR
WARRANTY

Award-Winning Cello Technology™

A specialized cell technology that improves opportunity for light absorption through circular-shaped wires that scatter light more effectively. This results in increased power output and improved appearance.



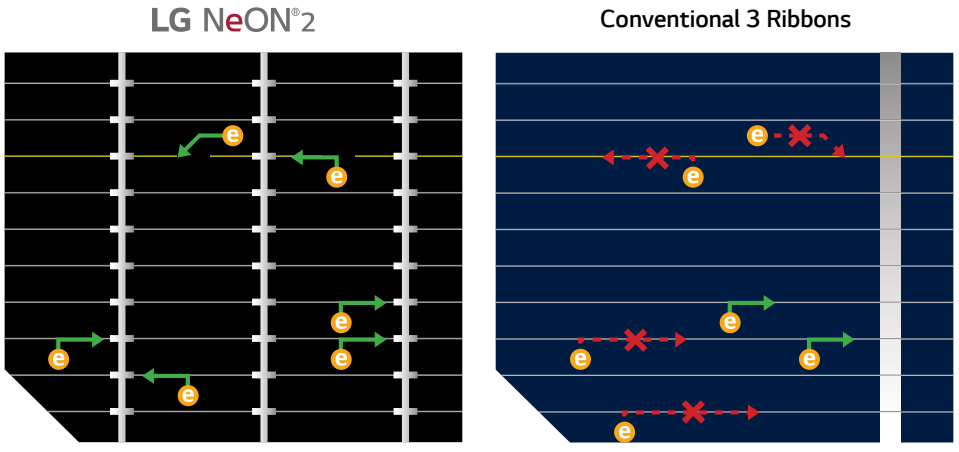
High-Efficiency Modules

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

High-efficiency panels are an advantage on smaller roofs or on roofs that experience some shading. They can also leave room for array expansion in the future.

Long-Term Reliability

Microcracks in finger electrodes may 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.



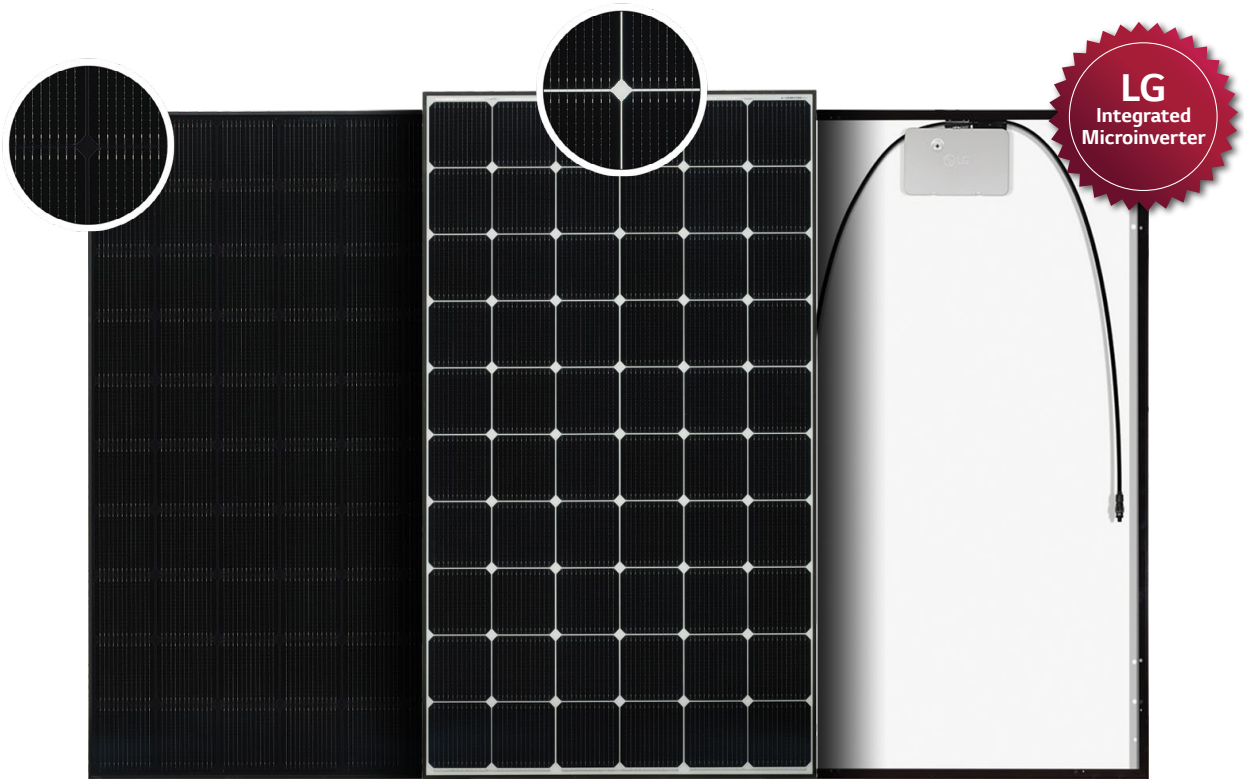
Multiple electrical paths maintained by wires

New

LG NeON®2 ACe

Individual solar panels can be managed in real time, in the palm of your hand.

LG's NeON® 2 ACe is an integrated solar panel and microinverter in one designed for easy installation and use. The ACe is a smart AC panel that is easy to install and monitor, provides increased flexibility for array design and is an excellent solution for home installation. This panel is easily managed with LG EnerVu software via the internet. When a problem occurs, it can be easily solved by tracking each individual panel through its microinverter.



LG NeON® 2 ACe Black
60 Cell

LG NeON® 2 ACe
60 Cell

Technical Data

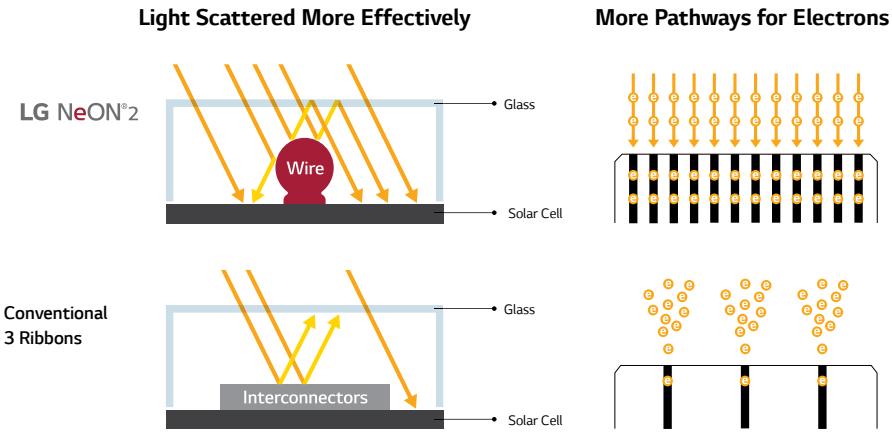
Product Model	LG NeON® 2 ACe (M1C-A6)			LG NeON® 2 ACe Black (M1K-A6)		
Cell Type	Monocrystalline / N-type			Monocrystalline / N-type		
# of Cells	60 Cell (6 x 10)			60 Cell (6 x 10)		
Maximum Power	**375W**	**380W**	320W (Wac) Microinverter	**370W**	**375W**	320W (Wac) Microinverter
Module Efficiency	20.7%	21.0%		20.4%	20.7%	
Dimensions (L x W x H)	1,740mm x 1,042mm x 40mm			1,740mm x 1,042mm x 40mm		
Weight	20.2kg			20.2kg		
Frame | Backsheet	Black | White			Black | Black		
Output Linear Warranty	1st year 98.5%, from 2-24th year: 0.33%/year down, 90.6% at year 25					
Product Warranty	25-Year Limited					

LG NeON® 2 ACe Features

25 YEAR
PRODUCT • PERFORMANCE • LABOR
WARRANTY

Award-Winning Cello Technology™

A specialized cell technology that improves opportunity for light absorption through circular-shaped wires that scatter light more effectively. This results in increased power output and improved appearance.



NeON® 2 ACe Accessories

With no separate microinverter or trunk cabling to install and very few balance-of-system parts (often just one transition cable and two end caps), the NeON® 2 ACe panels are quick and easy to install.

Connects to Your Devices

LG NeON® 2 ACe has easy and quick steps to connect with the internet. In addition, the LG NeON® 2 ACe makes it easy to register panels on the system.

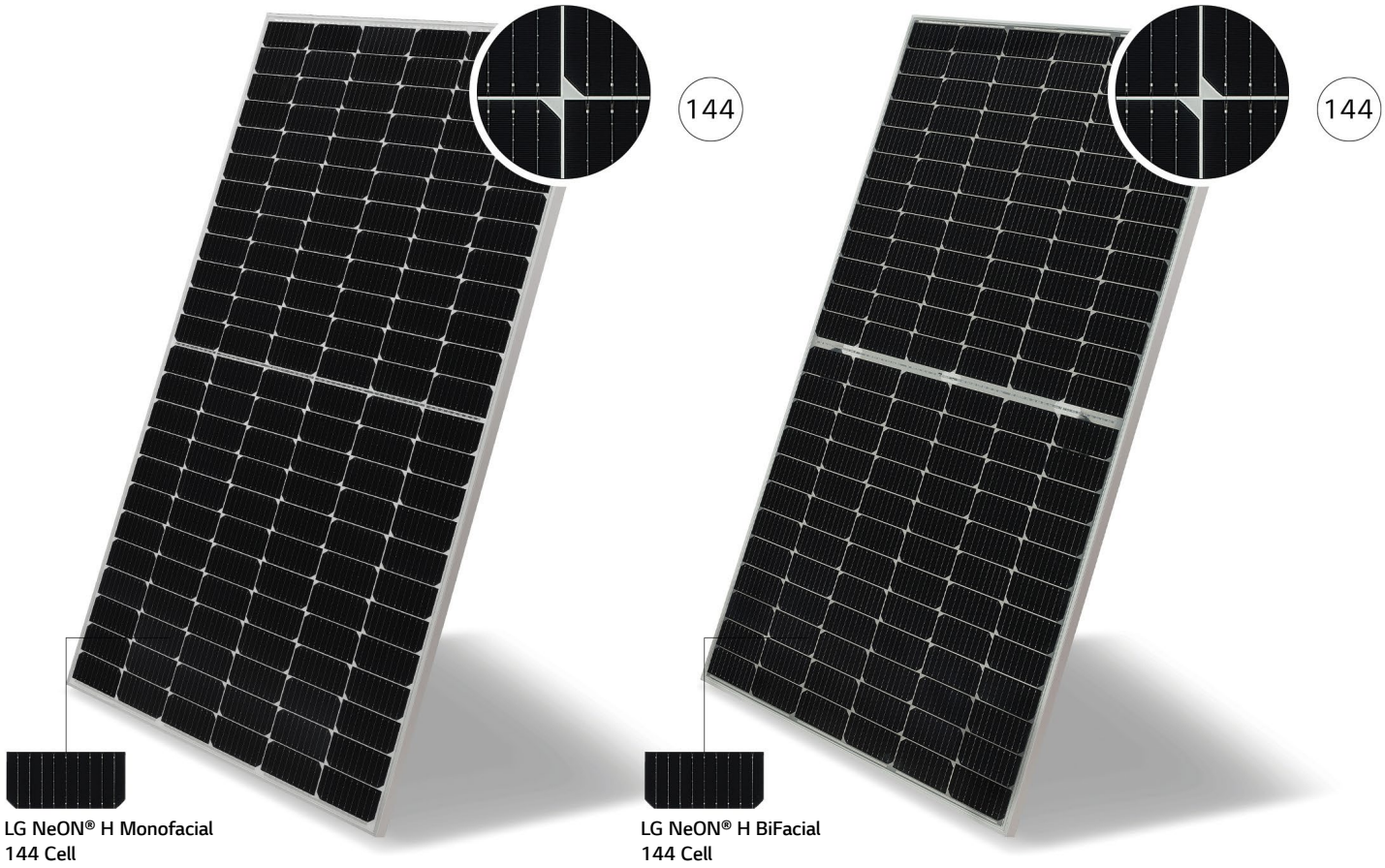
LG EnerVu, an energy monitoring/installation system, not only provides simple monitoring, but it gives detailed analysis of power production, self-consumption, electricity bills savings, sales volume, identification of issues related to power companies, and serves as a personalized installation guide.

New

LG NeON®H | LG NeON®H BiFacial

Double-Sided Generation

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



LG NeON® H Monofacial
144 Cell

LG NeON® H BiFacial
144 Cell

Technical Data

Product Model	LG NeON® H Monofacial (N2W-E6)			LG NeON® H BiFacial (N2T-E6)		
Cell Type	Monocrystalline / N-type			Monocrystalline / N-type BiFacial		
# of Cells	144 Half-Cut Cell (6 x 24)			144 Half-Cut Cell (6 x 24)		
Maximum Power	**440W**	**445W**	**450W**	**430W**	**435W**	**400W**
Module Efficiency (BiFi 100)	20.0%	20.2%	20.5%	20.7%	21.0%	21.2%
Dimensions (L x W x H)	2,110mm x 1,042mm x 40mm			2,110mm x 1,042mm x 40mm		
Weight	23kg			23kg		
Frame | Backsheet	Silver | White			Silver | Transparent		
Output Linear Warranty (BiFi 100)	Initial 107%, 1st year 105.4%, After 1st year : -0.35%/year, 96.9% at year 25					
Product Warranty	25-Year Limited					

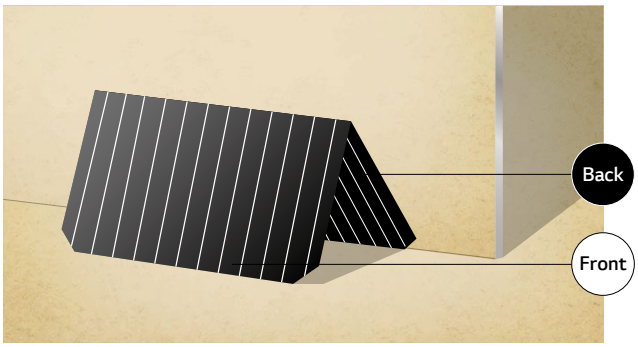
LG NeON® H Features

25 YEAR PRODUCT • PERFORMANCE WARRANTY

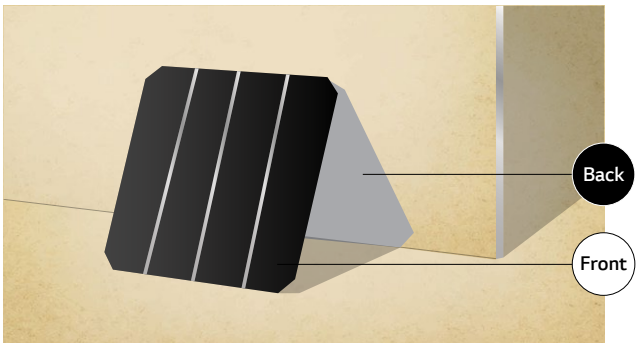
N-Type Cell (double-sided generation cell structure)

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

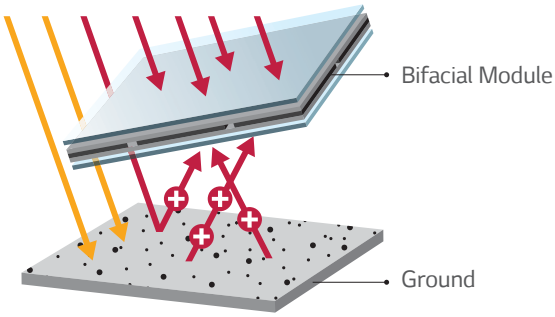
LG NeON®H



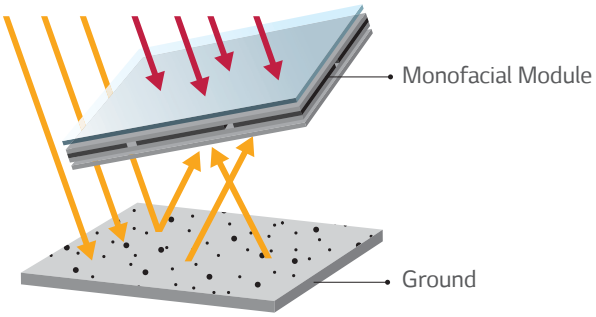
Monofacial Product



LG NeON®H BiFacial



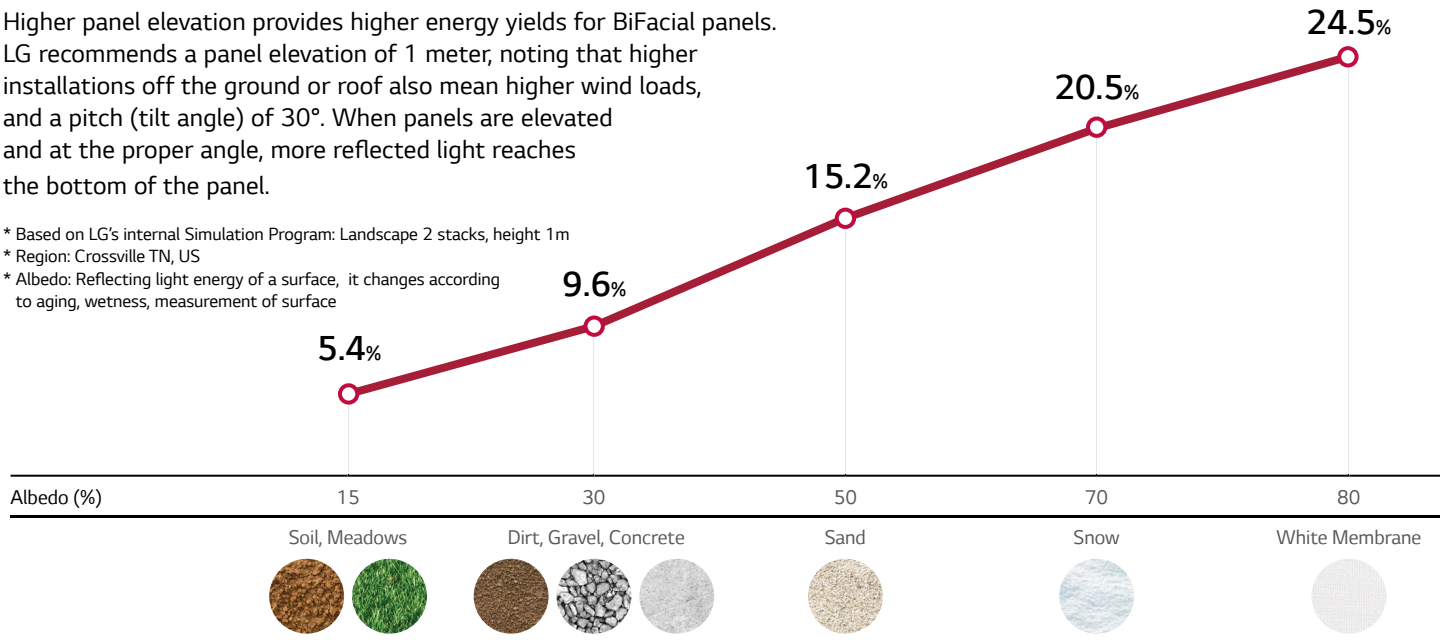
Monofacial Product



Module Elevation and Pitch

Higher panel elevation provides higher energy yields for BiFacial panels. LG recommends a panel 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 panels are elevated and at the proper angle, more reflected light reaches the bottom of the panel.

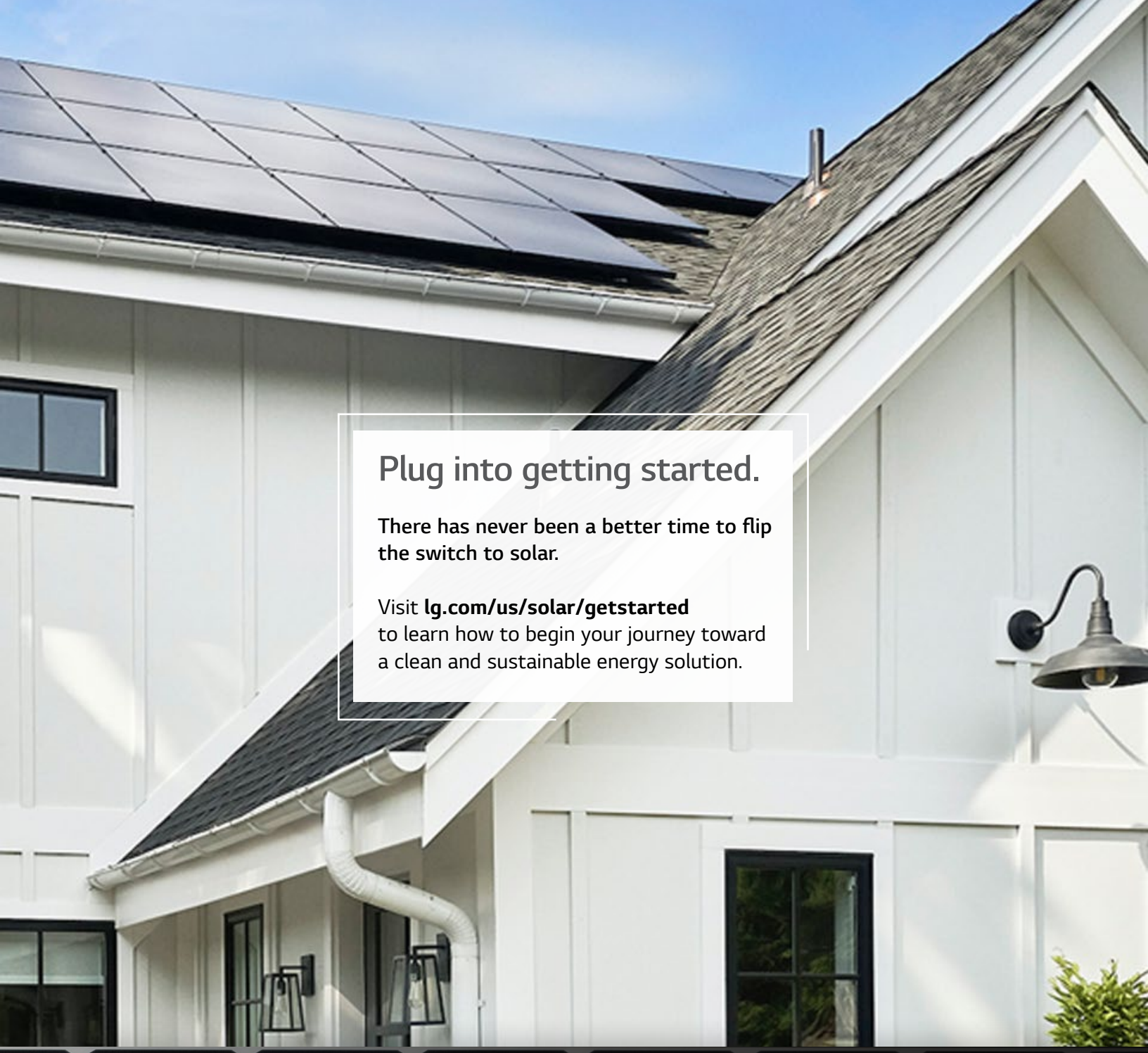
* Based on LG's internal Simulation Program: Landscape 2 stacks, height 1m
* Region: Crossville TN, US
* Albedo: Reflecting light energy of a surface, it changes according to aging, wetness, measurement of surface



Plug into partnership.

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 70 years of experience in the electronics industry, LG has developed premium solar panels that provide long-term quality and high energy output. Discover some of our installations:



Plug into getting started.

There has never been a better time to flip the switch to solar.

Visit **lg.com/us/solar/getstarted** to learn how to begin your journey toward a clean and sustainable energy solution.

Visit us at LG Solar.

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For more information visit **lg.com/us/solar**

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