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

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.

Revenues: $54.4 billion (2018)

World Presence: 118

Workforce: 75,150

LG: A Name You Can Trust

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

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.

**WHY LG SOLAR**

*Brand Power*

**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.
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.

N-type cells convert sunlight into energy more efficiently than P-type cells. Additionally, the rear side of the cell also generates energy. LG’s BiFacial modules capture light from above and below so they can generate energy from absorbed reflected light.

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

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

LG Solar Awards & Innovation in Technology

LG’s NeON® R ACe is a high power smart AC module.

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

Output Warranty

- **LG NeON®2**:
  - 1 year: 97.14%
  - After 1st Year: -0.33%
  - Annual Degradation: 1.46% After 25 years: 81.24%

- **LG NeON®**:
  - 1 year: 95.3%
  - After 1st Year: -0.3%
  - Annual Degradation: 0.88% After 25 years: 90.08%

- **P-Mono Product (Average, 11 Module Manufacturers)**:
  - 1 year: 95%
  - After 1st Year: -0.66%
  - Annual Degradation: 0.66% After 25 years: 81.24%

Product Warranty

- **LG NeON®2**: 25 yr
- **LG NeON®**: 25 yr
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

<table>
<thead>
<tr>
<th>Product Model</th>
<th>LG NeON® R 60Cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Type</td>
<td>Monocrystalline, N-type</td>
</tr>
<tr>
<td># of Cells</td>
<td>60 (6x10)</td>
</tr>
<tr>
<td>Maximum Power</td>
<td>371W, 380W, 385W*</td>
</tr>
<tr>
<td>Module Efficiency</td>
<td>21.1%, 21.4%, 22.4%</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>1,700 x 1,016 x 40 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>17.5 kg</td>
</tr>
</tbody>
</table>

Linear Warranty
- First year: 98%, After 1st year: 0.3% annual degradation, 25 years: 90.8%

Product Warranty
- 25 years

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.

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.
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

<table>
<thead>
<tr>
<th>Product Model</th>
<th>LG NeON® R 60Cell</th>
<th>LG NeON® R Prime 60Cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Type</td>
<td>Monocrystalline / N-type</td>
<td></td>
</tr>
<tr>
<td>* of Cells</td>
<td>60 cell (6 x 10)</td>
<td></td>
</tr>
<tr>
<td>Maximum Power</td>
<td>385W**</td>
<td>380W*</td>
</tr>
<tr>
<td>Module Efficiency</td>
<td>21.6%</td>
<td>21.4%</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>1,700 x 1,016 x 40mm</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>17.8kg</td>
<td></td>
</tr>
</tbody>
</table>

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.

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.

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 Prime

LG NeON® R

LG NeON® R Prime
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.

Technical Data

<table>
<thead>
<tr>
<th>Product Model</th>
<th>LG NeON® R 60Cell</th>
<th>LG NeON® R ACe 60Cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Type</td>
<td>Monocrystalline / N-type</td>
<td></td>
</tr>
<tr>
<td>* of Cells</td>
<td>60Cell (6 x 10)</td>
<td></td>
</tr>
<tr>
<td>Maximum Power</td>
<td>385W** 380W* 375W 370W 365W 385W** 380W* 375W</td>
<td></td>
</tr>
<tr>
<td>Module Efficiency</td>
<td>22.4% 22.0% 21.7% 21.4% 21.1% 22.3% 22.0% 21.7%</td>
<td></td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>1,700 x 1,016 x 40mm</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>17.5kg 19kg</td>
<td></td>
</tr>
</tbody>
</table>

Linear Warranty (First year: 98%, After 1st year: 0.3% annual degradation, 25 years: 90.8%)

Flexible Array Design

LG NeON® R ACes 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 ACes 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.

<table>
<thead>
<tr>
<th>AC (V)</th>
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</thead>
<tbody>
<tr>
<td>0</td>
</tr>
<tr>
<td>200</td>
</tr>
<tr>
<td>400</td>
</tr>
<tr>
<td>600</td>
</tr>
<tr>
<td>800</td>
</tr>
<tr>
<td>1000</td>
</tr>
</tbody>
</table>

LG NeON® 2 ACe (AC)
**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.

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**Technical Data**

<table>
<thead>
<tr>
<th>Product Model</th>
<th>LG NeON® 2</th>
<th>LG NeON® 2</th>
<th>LG NeON® 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cell Type</strong></td>
<td>60cell (6 x 10)</td>
<td>72cell (8 x 12)</td>
<td>72cell (8 x 12)</td>
</tr>
<tr>
<td><strong>Module Efficiency</strong></td>
<td>21.4%</td>
<td>20.3%</td>
<td>20.0%</td>
</tr>
<tr>
<td><strong>Dimensions (L x W x H)</strong></td>
<td>1,686 x 1,016 x 40 mm</td>
<td>2,024 x 1,024 x 40 mm</td>
<td>2,024 x 1,024 x 40 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>17.7kg</td>
<td>20.3kg</td>
<td>20.3kg</td>
</tr>
</tbody>
</table>

Output Warranty of Peak (First year: 98% After 1st Year: 0.33% annual degradation, 25 years: 90.08%)

Product Warranty: 25 years

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**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.

**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 Huntsville, 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.

Features

Cello Technology™

LG NeON® 2

Light Scattered More Effectively

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.

PRODUCTS

60cell

1,686 x 1,016 x 40 mm***

17.1 kg

Conventional

3 Ribbons

Light Scattered More Effectively

More Pathways for Electrons

LG NeON® 2 Black

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.

Technical Data

<table>
<thead>
<tr>
<th>Product Model</th>
<th>LG NeON® 2 60Cell</th>
<th>LG NeON® 2 Black 60Cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Type</td>
<td>Monocrystalline / N-type</td>
<td>Monocrystalline / N-type</td>
</tr>
<tr>
<td>No. of Cells</td>
<td>60cell (6 x 10)</td>
<td>60cell (6 x 10)</td>
</tr>
<tr>
<td>Maximum Power</td>
<td>370W**</td>
<td>370W**</td>
</tr>
<tr>
<td></td>
<td>365W**</td>
<td>365W**</td>
</tr>
<tr>
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<td>355W**</td>
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<td>345W**</td>
<td>345W**</td>
</tr>
<tr>
<td></td>
<td>340W*</td>
<td>340W*</td>
</tr>
<tr>
<td>Module Efficiency</td>
<td>21.0%</td>
<td>21.0%</td>
</tr>
<tr>
<td></td>
<td>20.8%</td>
<td>20.8%</td>
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<tr>
<td></td>
<td>20.7%</td>
<td>20.7%</td>
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<tr>
<td></td>
<td>20.4%</td>
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<td>19.8%</td>
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<td>19.7%</td>
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<td>19.0%</td>
<td>19.0%</td>
</tr>
<tr>
<td></td>
<td>18.7%</td>
<td>18.7%</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>1,686 x 1,016 x 40 mm***</td>
<td>1,686 x 1,016 x 40 mm***</td>
</tr>
<tr>
<td>Weight</td>
<td>17.1 kg</td>
<td>17.1 kg</td>
</tr>
</tbody>
</table>

Output Warranty of Panel

Linear Warranty

(First year: 98%, After 1st year: 0.3% 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
**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.

### Technical Data

<table>
<thead>
<tr>
<th>Product Model</th>
<th>LG NeON®2 BiFacial 72Cell</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cell Type</strong></td>
<td>Monocrystalline / N-type</td>
</tr>
<tr>
<td><strong># of Cells</strong></td>
<td>72 Cell (8 x 12)</td>
</tr>
<tr>
<td><strong>Maximum Power</strong></td>
<td>410W** 410W** 405W** 400W</td>
</tr>
<tr>
<td><strong>Module Efficiency</strong></td>
<td>20.0% 19.8% 19.5% 19.3%</td>
</tr>
<tr>
<td><strong>Dimensions (L x W x H)</strong></td>
<td>2,024 x 1,024 x 40 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>20.3kg</td>
</tr>
</tbody>
</table>

* Based on LG’s internal Simulation Program: Landscape 2 stacks, height 1m
** Region: Crossville TN, USA
* Albedo: Reflecting light energy of a surface, it changes according to aging, weather, unevenness of surface

### 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.

### 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.
REFERENCE

RESIDENTIAL

USA

THAILAND_Bangkok

Netherlands_Venlo

Germany_Leipzig

Germany_Grasberg

Switzerland_Kolliken
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.

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