

LG Solar

BiFacial Modules

For Commercial and
Tilt-Mount Module Projects

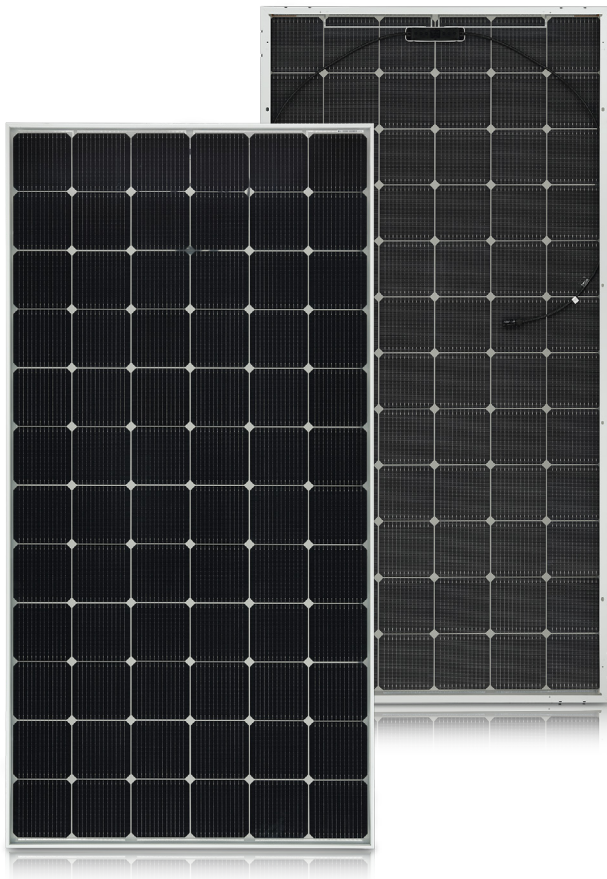


What are BiFacial Solar Modules?

BiFacial solar modules are designed to capture light from both the front and back of the modules. BiFacials can capture direct sunlight as well as light reflected off of surfaces beneath or near the modules (including neighboring rows of solar modules).

If your solar project calls for tilted modules on the ground, a patio awning or roof, and if your installer plans to use pole mounts or ballasted systems, LG Solar's BiFacial modules are an excellent choice.

Introducing the NeON[®] 2 BiFacial Solar Module



LG NeON[®] 2 BiFacial

NeON[®] 2 Bifacial 72-cell modules are now available in the United States. Incorporating the same award-winning Cello Technology™ as our best-selling NeON[®] 2 monofacial modules, LG Solar BiFacials feature the following output and efficiency ratings:

LG 72-Cell NeON[®] 2 BiFacial

400W | 405W

19.3% | 19.5% Module Efficiency

LG Solar NeON® 2 BiFacial Modules:

- Provide improved performance on hot days due to a low temperature coefficient
- Offer BOS (Balance of System) savings – fewer high-efficiency modules and system components are required to achieve power goals
- Can generate power well even on cloudy days
- Experience near zero LID (Light Induced Degradation that occurs when modules are first exposed to sunlight)
- LG Solar offers a 25-year product, performance and labor* limited warranty

**Labor costs in the rare case of a needed module repair or replacement are covered up to \$450.*

Maximum Power without BiFacial Gain	Bifacial Gain**			
	5%	10%	20%	27%
400W	410	425	450	470
405W	415	430	455	475
410W	420	435	460	480

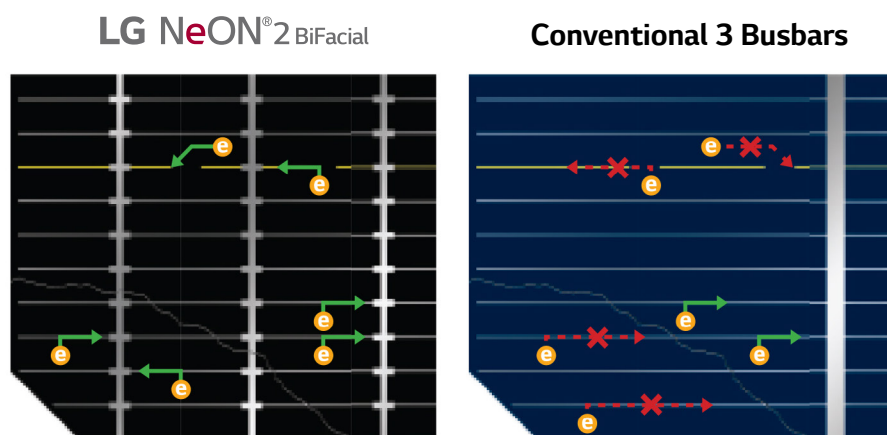
***Bifacial gain depends on a variety of factors: albedo, height, elevation, shading, etc.*

***Based on STC (Standard Test Conditions).*

Cello Technology™

All LG Solar NeON® 2 modules, including BiFacial modules, feature Cello (Cell Connection with Electrically Low loss, Low stress, and Optical absorption enhancement) Technology™.

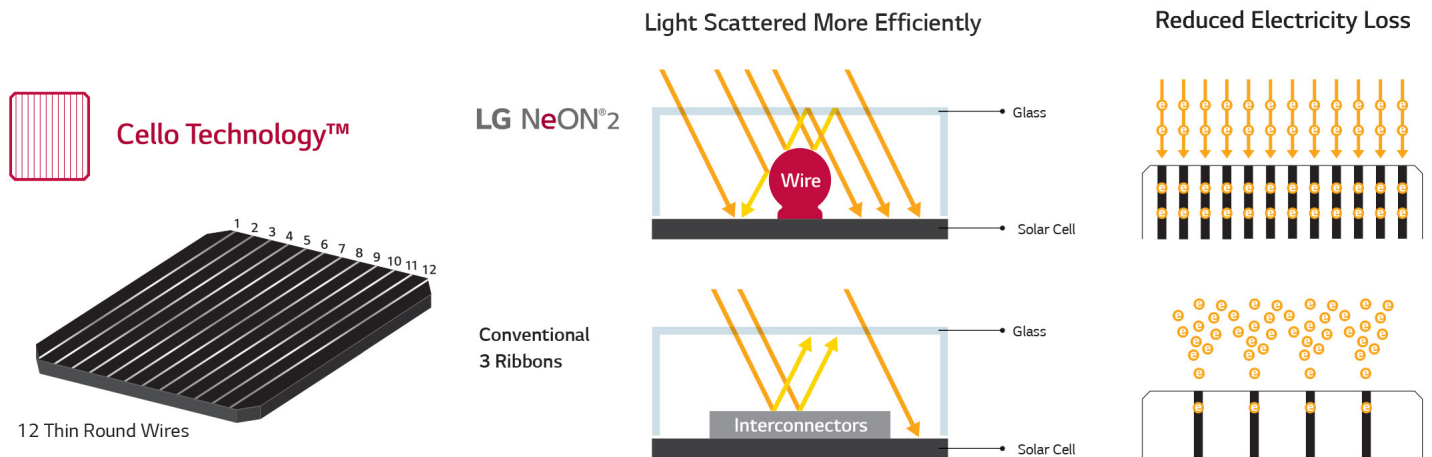
Cello Technology™ features 12 thin, circular-shaped wires instead of the usual 3-5 busbars. Photons absorbed from sunlight have more pathways to enter to produce electrical current in NeON® 2 cells. This also reduces vulnerability to power generation loss due to micro-cracks.



Multiple electrical pathways ensure that fewer electrons are lost in the absorption process.

Cello Technology™ Advantages:

- Traditional flat wires reflect out irradiance, while our round wires improve light absorption
- Light is scattered more effectively within the cells
- Resistance to performance loss due to environmental factors such as micro-cracks
- Improved module appearance

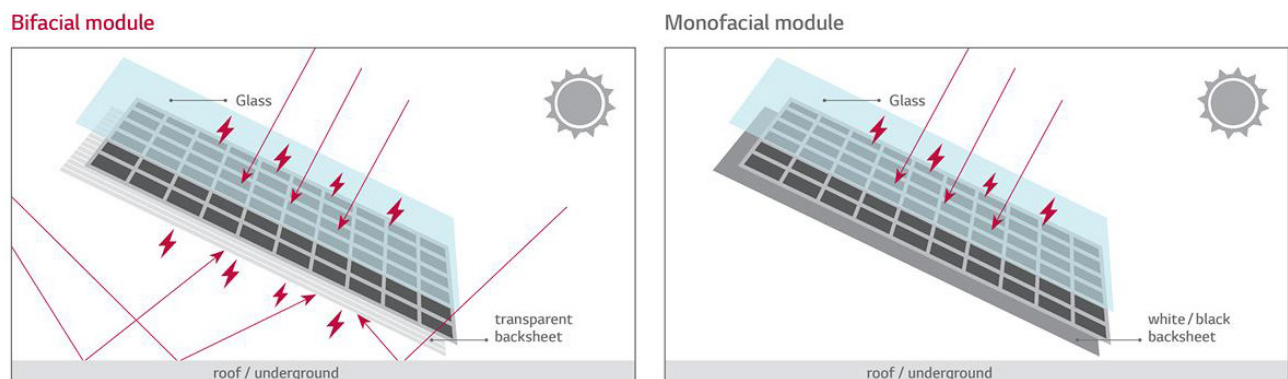


Transparent Backsheet

LG Solar's BiFacial modules have a transparent backsheet that enables reflected light to be absorbed by the cells. In addition, the cells in each module have a symmetrical structure designed to capture both front and rear irradiance.

BiFacial Gain

The additional power gained from the back of the double-sided cells in our BiFacial modules changes the electrical values of the module. Voltage stays constant while current increases proportionally with the power boost.



Extremely Low Light Induced Degradation (LID)

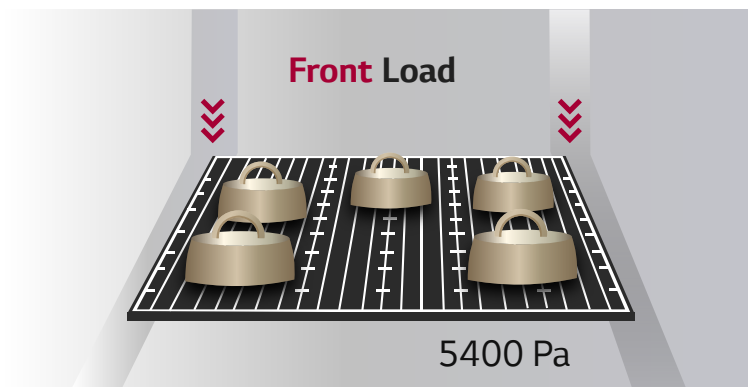
Many solar modules are built with P-type wafers that include boron, which interacts with oxygen to cause Light Induced Degradation (LID). Because our NeON[®] 2 modules are manufactured with N-type wafers that are based on phosphorous, they experience very low LID rates.



LG NeON[®] 2 BiFacial / Phosphorus in N-Type wafers improves LID rates

Outstanding Durability

All LG Solar modules feature a reinforced frame design that allows for a strong load. Our 72-cell NeON[®] 2 BiFacial modules can handle a 5400 Pa (Pascal) front load and a 3000 Pa rear load.



Are NeON[®] 2 BiFacial Modules Right for Your Project?

BiFacial solar modules are designed for solar systems that expose the front and back of the modules to direct and reflected light. If this applies to your project, ask your installer about LG Solar's NeON[®] 2 BiFacial modules.



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