WHY USE BIFACIAL SOLAR MODULES FROM LG?

All LG Solar NeON® 2 and NeON® R modules provide high-efficiency performance and high power output. For commercial project developers or homeowners who need even more power, LG Solar developed NeON® 2 BiFacial modules that generate electricity from both the front and back. If your project calls for tilt-mount modules on the ground, a patio awning or roof and you plan to use pole mounts or ballasted systems, for example, LG Solar’s BiFacial modules are an excellent choice. BiFacial modules capture light from above and below, generating energy from reflected light absorbed from the ground, a reflective roof or other surface, a neighboring row of PV modules or even snow.

HOW DO LG SOLAR’S BIFACIAL MODULES CAPTURE REFLECTED LIGHT?

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 (or sunlight).

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.

ADVANTAGES OF LG SOLAR’S BIFACIAL MODULES:

Our BiFacial modules:

✓ Absorb more sunlight than our monofacial modules due to front-and-back absorption capability (consider albedo of reflective surfaces when placing modules)
✓ Feature Cello Technology™, which uses 12 thin circular wires instead of 3-5 busbars to reduce power generation loss and resist the effects of micro-cracks.
✓ Perform well on cloudy days
✓ Experience low LID (Light Induced Degradation)
✓ Offer outstanding durability: LG NeON® 2 modules can withstand 5400 Pa (Pascal) front loads and 4000 Pa rear loads
✓ Offer savings on BOS (Balance of System) costs due to the need for fewer modules and supporting equipment compared to less efficient modules.
✓ Are backed by LG Solar’s limited 25-year product, performance and labor* warranty

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

For more information, visit: www.lgsolarusa.com

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