

LG SOLAR INTRODUCES HIGH-PERFORMANCE 72-CELL SOLAR PANELS FOR COMMERCIAL INSTALLATIONS

*Launched at SPI 2015, New 'Mono X NeON 72'
Joins Flagship 'NeON 2' Ultra-Efficient Module Series*

ANAHEIM, Calif., Sept. 15, 2015 – LG Electronics has introduced new 72-cell solar panels – designed to be a highly efficient and practical solar solution for commercial installations. Unveiled here this week at the Solar Power International 2015 trade show, the all-new Mono X NeON™ 72 uses LG's n-type double-sided cell structure for improve efficiency.

Available for the first time in the United States this month, the Mono X NeON 72 features a series of 72-cell modules that are ideally suited for commercial installations, making it easier to manage space when installing a large-scale system. Most notably, models LG360N2W-B3 and LG365N2W-B3 are designed to deliver high-efficiency output of up to 360 and 365 watts respectively, producing more power in less space (in a 1,960 x 1,000 x 46 millimeter panel).

“The Mono X NeON 72 represents a new level of efficiency, ideal for business owners who want a solar solution that performs in any environment, big or small, at anytime of the day,” said Ellen Kim, senior vice president of LG Electronics USA's Energy Solutions business. “This new product fits perfectly within LG's vision of creating attainable solar solutions that provide consumers long-term cost savings while still harnessing the best solar technology available.”

Mono X NeON 72 Means Higher Efficiency in Virtually Any Environment

The new 72-cell panel builds on the success of LG's award-winning 60-cell Mono X NeON that uses LG's n-type double-sided cell structure which allows the light reflected from the rear of the module to be reabsorbed, generating even more power.

The n-type material was developed through an elaborate process control, adopting a semiconductor processing solution, which boasts higher mobility of electric charge. As a result of the improved temperature coefficient, the Mono X NeON 72 can generate more electricity on sunny days and even performs more efficiently on cloudy days, allowing one module to generate more energy per square foot, no matter what the environment.

NeON™ 2 and NeON™ 2 Black Continue to Advance Solar Industry

LG's flagship NeON 2 and NeON 2 Black, launched in the United States this summer, also are being highlighted at SPI 2015. They feature LG's innovative Cello technology, which utilizes circular-shaped wires to scatter light for better absorption while reducing the electrical loss and increasing power output and reliability by spreading the current with 12 thin wires rather than the traditional three busbars.

While the all-new Mono X NeON 72 is optimized for commercial use, the new NeON 2 and NeON 2 Black solar panels are ideal for residential applications. The sleek all-black NeON 2 Black has been designed with rooftop aesthetics in mind. The 320W NeON 2 boasts 6.4 kWp capacity with 20 modules (60 cells) compared with competitors' 285W p-type Mono panels with the same number of modules that generate only 5.7 kWp.

Enhanced Longevity and Durability, Improved Warranty

Unlike conventional p-type solar modules, the n-type cells used in the Mono X NeON 72, NeON 2 and NeON 2 Black use phosphorous instead of boron in the doping process. As a result, the LG cells do not suffer from Light Induced Degradation (LID) caused by the simultaneous presence of boron and oxygen in the wafers. In contrast, the LID effect in standard Poly and Mono p-type cells leads to a reduction of the module power output by usually two to three percent within the first weeks of installation.



The Mono X NeON 72 offers the same increased frame firmness of the NeON 2 and NeON 2 Black – the direct result of a reinforced frame design that is as aesthetically pleasing as it is durable. The 72-cell module comes with an improved product warranty of 12 years. The 25-year Linear Performance warranty has also been improved from -3 percent to -2 percent in the first year and from -0.7 percent to -0.6 percent per year from Year 2 to Year 25.

For more information on LG solar solutions, please visit www.lg.com/us/commercial/solar.

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