LG Solar Modules Offer Efficiency Within the Home

by Barry Knightly

Article published on November 25th 2011 | Technology

At the Intersolar 2011 exhibition in Munich earlier this year, LG unveiled their next generation of solar modules.

Showcasing the Mono Xâ„¢ and the Multi Xâ„¢, both are more efficient than their contemporaries â€“ a whole 8.3% and 4.3% respectively.

Designed and rated to withstand the harshest climate confitions, as well as frontal and rear pressure of 5400Pa, the new solar modules are reliable and also aesthetically pleasing; both available in a number of sizes, with an attractive blue cell and piano black frame.

Mono Xâ„¢

The Mono Xâ„¢ runs at 260W making it the most energy efficient of all LG modules in its class. Compared to the standard 240W, it has been designed to be easier and less expensive to install. Making it not only cost effective long term, but time effective short term.

Multi Xâ„¢

Showcasing LGâ€™s most advanced surface treatment, the Multi Xâ€™s surface absorbs more sunlight resulting in a greater energy output compared to that of the standard multi-crystaline solar cells.

Solar Modules

Solar modules, or panels, use light energy from the sun to generate electricity through an effect called photovoltaic.

Dependent on construction, these photovoltaic panels can produce electricity from a range of sunlight frequencies, but usually they cannot cover the entire solar range, most specifically ultraviolet, infrared and low or diffused light.

More recently, this issue has seen changes made to how these modules are constructed, in some cases where the modules waste sunlight energy; they have instead resulted in higher efficiency if illuminated with monochromatic light.

Another concept is to divide the light into different wavelength ranges â€“ directing the beams onto separate cells. This concept has been projected to raise efficiency by 50%.

In commercial products, currently, the typically achieved sunlight conversation rate, i.e. solar panel efficiency, is around 21%.

Article Source:
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Barry Knightly - About Author:
Barry Knightly is a writer and fan of the brand a LG

Article Keywords:
LG

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