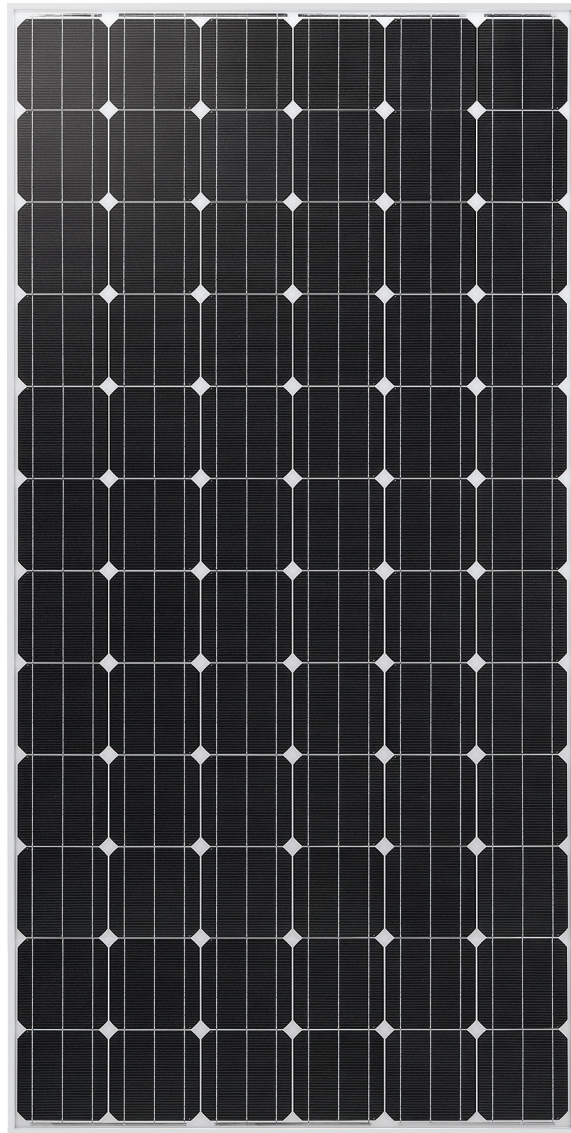


LG NeON™ 72cell

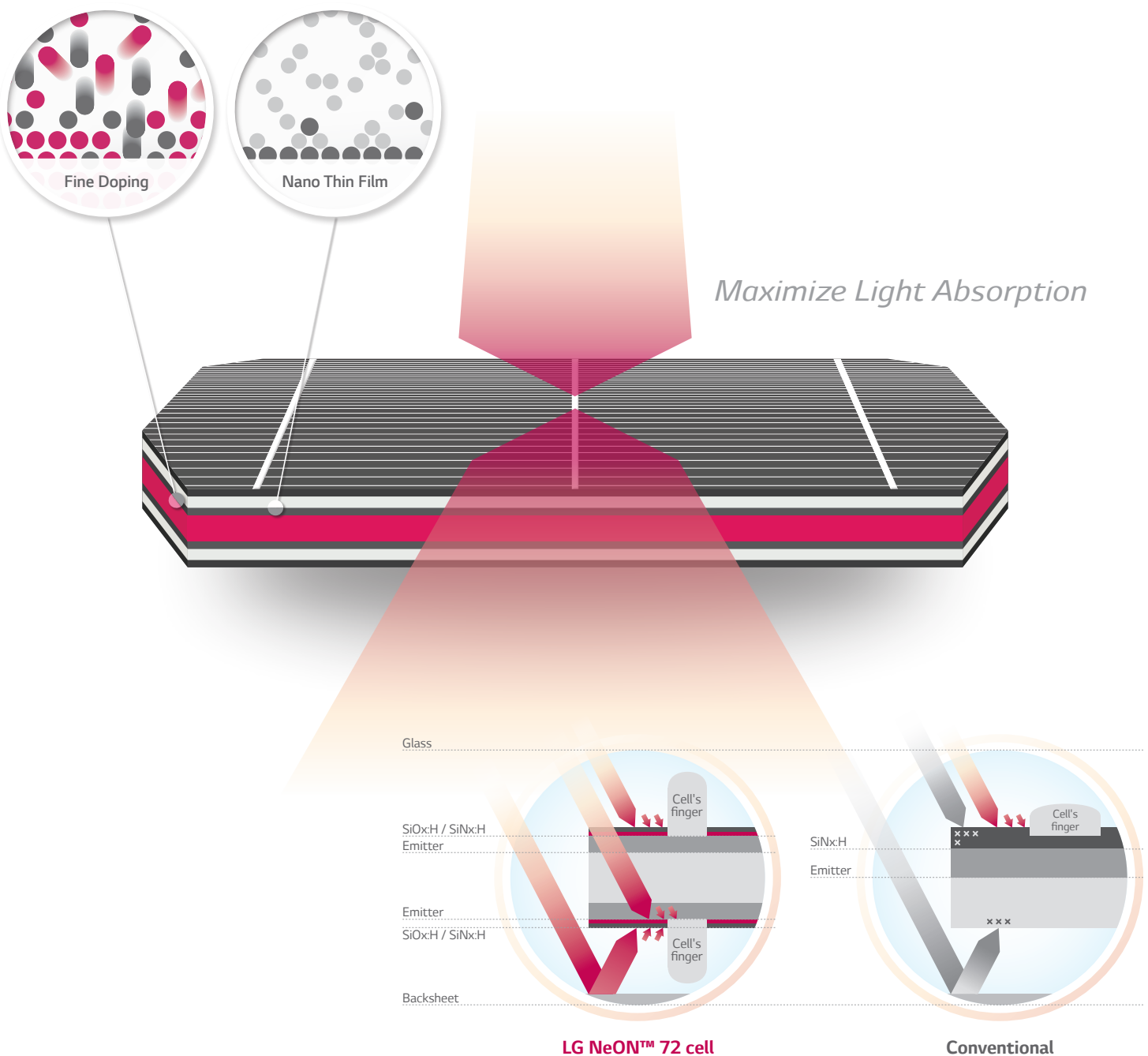


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New Double-sided Cell Structure

Producing energy from both the front and back of the cells

LG NeON™ 72 cell produces energy from both the front and back. By absorbing light from even the backside, the cells raise efficiency. This makes the cells of LG NeON™ 72 cell particularly more efficient than conventional cells in the mornings and evenings when the incident angle is lower.

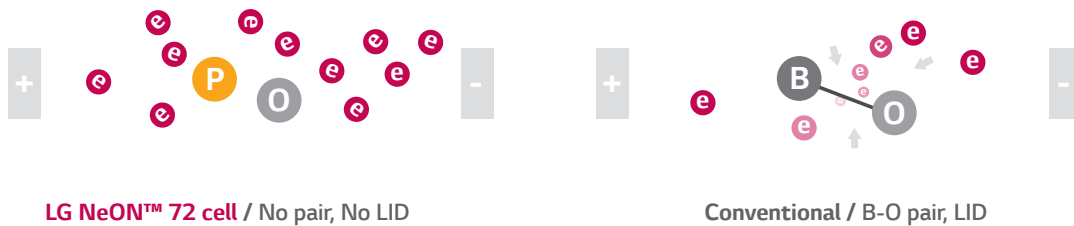


Extremely Low LID Cells

Light induced degradation in the 1st year

While conventional p-type modules suffer from LID* caused by the reaction of Boron and Oxygen over the 1st year, LG NeON™ 72 cell uses n-type wafer that are rarely affected by it.

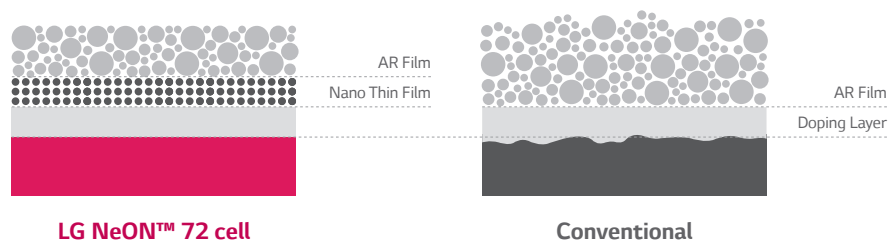
* LID (Light Induced Degradation)



More Nano Level Control

Minimized cell defect and maximized uniformity

LG NeON™ 72 cell has applied semiconductor technology to doping and surface treatment processes. Cell defect was minimized, while uniformity was maximized. Consequently, the LG NeON™ 72 cell efficiency rose to 21% or higher.

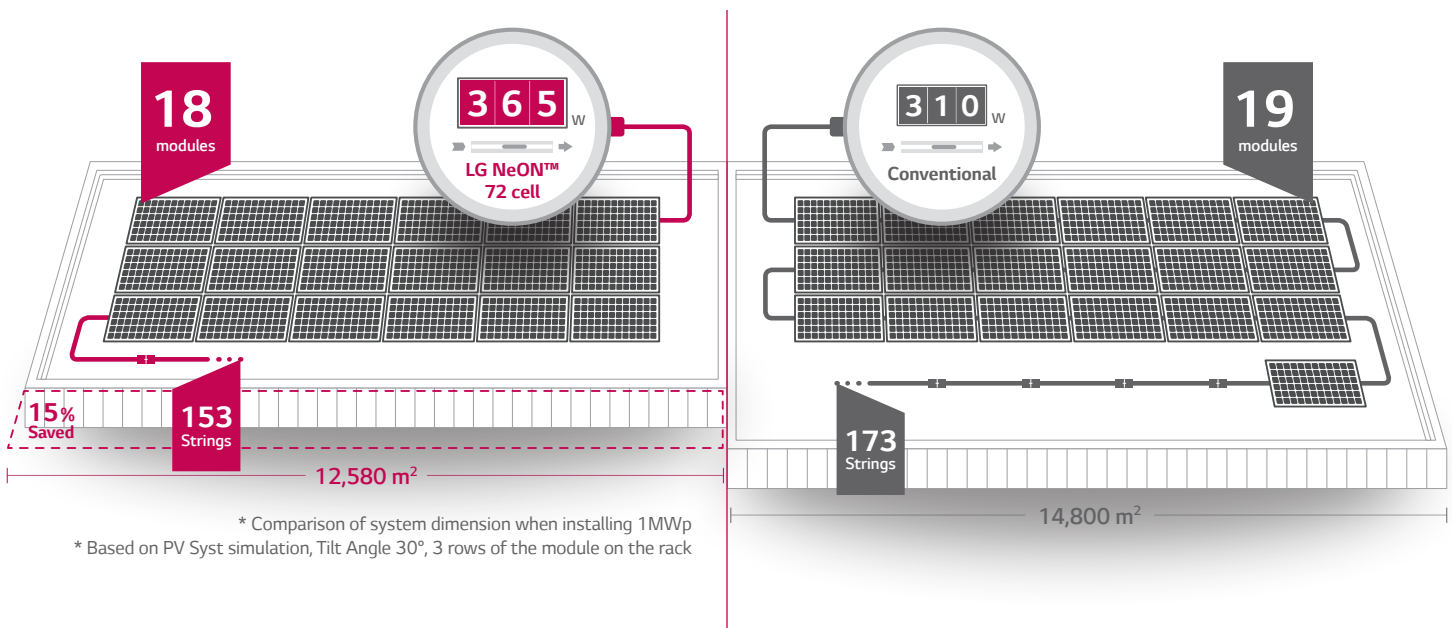


Installation Saving

Efficient space management & B.O.S. saving

Compared with the conventional 72-cell multi module, the LG NeON™ 72 cell achieves higher power output and module efficiency, making it easy to manage space when installing large scale system. Also, LG NeON™ 72 cell can reduce the total number of strings due to its high module efficiency.

* B.O.S. (Balance of System)



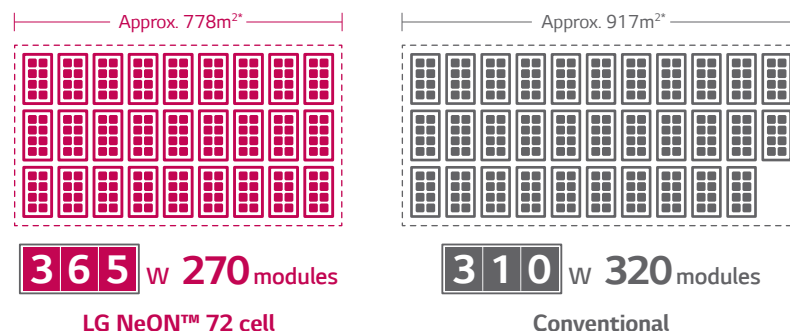
High Efficient Panel

Constraints from surrounding circumstance

The shadow of physical structures on the roof restricts the space for installation of solar system. High efficient LG NeON™ 72 cell makes it easier to build the module array.

* Comparison of Module quantity and space when installing 100kWp system on the flat roof

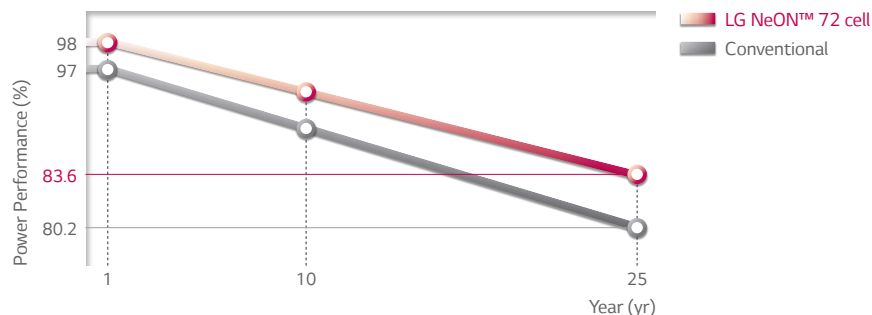
* Based on PV Syst simulation, Tilt Angle 10°, Inter-row spacing 19.7°



Enhanced Performance Warranty

Warranty for a long-term operation

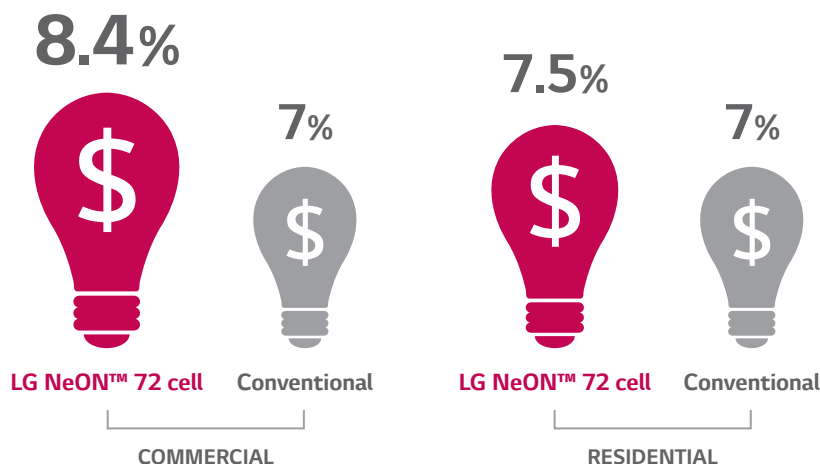
LG provides the enhanced performance warranty for the LG NeON™ 72 cell. With 0.6%/yr of annual degradation, new policy ensures the power performance of 83.6% at least after 25 years. Additionally, LG has extended the product warranty for additional 2 years.



The IRR Comparison

The IRR comparison of commercial and residential

*The comparison between the IRR (Internal Rate of Return) was calculated internally at LG to compare the relative return rate between different modules. Therefore, this return rate is not guaranteed. Further, the rate may differ according to the area and date of the analysis.

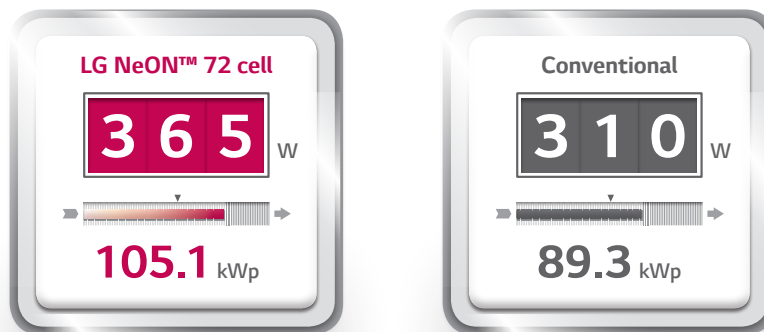


More Power Generation

More power generation in the same area

LG NeON™ 72 cell is the right solution for the flat roof under the space limit to maximize the generation of electricity.

* Capacity of solar power system with 288 modules (18x16 module arrays)

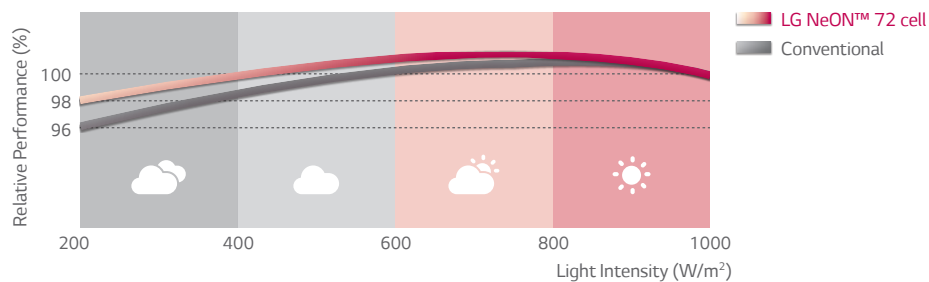


High Performance at Weak Sunlight

Power generation on a cloudy day

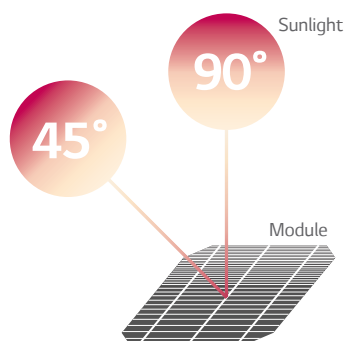
LG NeON™ 72 cell gives good performance even on cloudy days due to its low energy reduction in weak sunlight.

* Relative performance compared with the performance at 1000W/m



Better Performance at Low Incident Angle

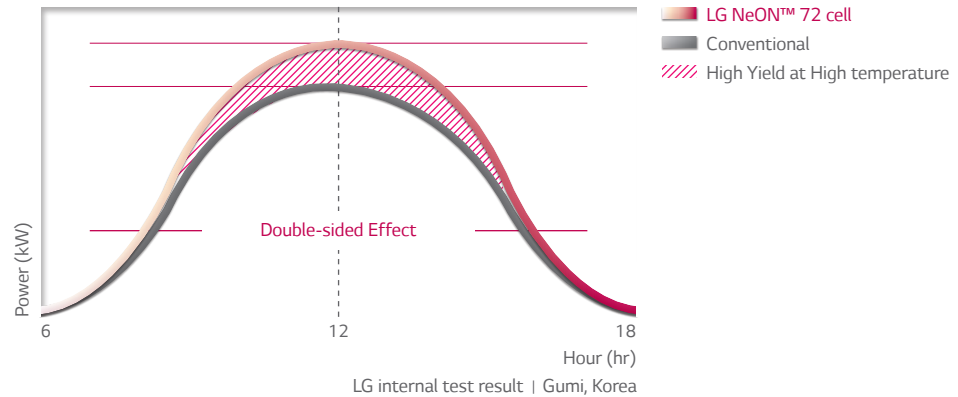
Double-sided cell



High Performance Maximizes Output Power

Double-sided effect

With double-sided cell and lower temperature coefficient.

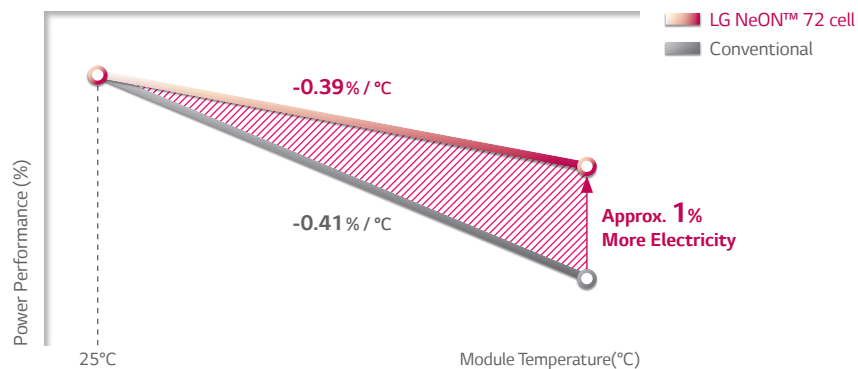


High Performance Temperature Coefficient

Better performance on a sunny day

LG NeON™ 72 cell generates more power on a sunny day thanks to its low temperature coefficient.

* Based on PV Syst simulation (Northeastern U.S.)



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