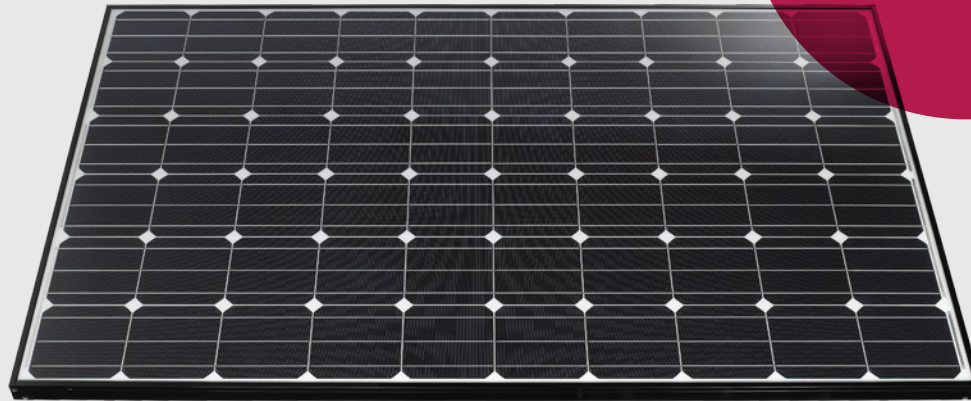


With LG,
it's all possible.



Mono^X™ NeON

LG305N1C-B3

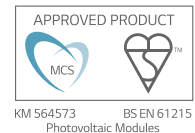
LG300N1C-B3

LG295N1C-B3

LG290N1C-B3

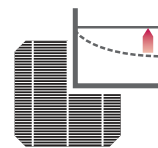
60 cell

Introducing Mono X™ NeON module series, which uses highly efficient n-type materials, an elaborate process control adopting a semiconductor processing solution and a double-sided structure. Our R&D concentrates on developing a product that is not only efficient, but strives to increase practical value for customers.



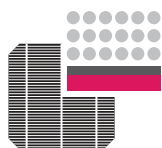
N-Type Material

Mono X™ NeON uses n-type cells, boasting higher mobility of electric charge, resulting in higher generation efficiency.



Near Zero LID (Light Induced Degradation)

The n-type cells used in Mono X™ NeON have almost no boron, which may cause the initial efficiency to drop, leading to less LID.



Nano Level Control

Mono X™ NeON uses the Nano-level process control predominant in semiconductor processing process, which ensures less electric loss from internal defects.



Double-Sided Cell Structure

The rear of the cell used in Mono X™ NeON is designed to contribute to generation; the light beam reflected from the rear of the module is reabsorbed to generate a great amount of additional power



Light Weight



Convenient Installation



EL Test



Current Sorting



Linear Warranty



Positive Power Tolerance


About LG Electronics

LG Electronics is a multinational corporation committed to expanding its capacity with solar energy business as its future growth engine. Our a solar energy source research program was launched in 1985, backed by LG Group's rich experience in semi-conductors, LCD, chemistry and electronic materials industry. We successfully released the first Mono X™ series to the market in 2010 which exported to 32 countries in 2 years. In 2013, Mono X™ NeON won "Intersolar Award", which proved its leading innovation in the industry.

Mechanical Properties

Cells	6 x 10
Cell vendor	LG
Cell type	Monocrystalline
Cell dimensions	156.5 x 156.5 mm / 6 x 6 in
# of busbar	3
Dimensions (L x W x H)	1640 x 1000 x 35 mm 64.57 x 39.37 x 1.38 in
Static snow load	5400 Pa / 113 psf
Static wind load	2400 Pa / 50 psf
Weight	16.8 ± 0.5 kg / 36.96 ± 1.1 lb
Connector type	MC4 connector IP 67
Junction box	IP 67 with 3 bypass diodes
Length of cables	2 x 1000 mm / 2 x 39.37 in
Glass	High transmission tempered glass
Frame	Anodized aluminum

Certifications and Warranty

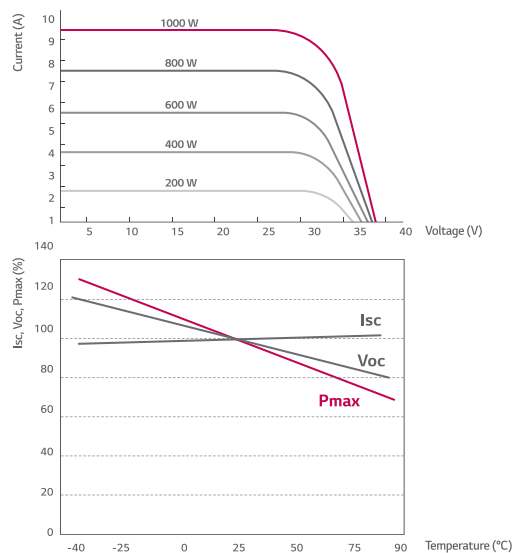
Certifications (In Progress)	IEC 61215, IEC 61730-1/-2, UL 1703, ISO 9001, IEC 61701, IEC 62716
Module Fire Performance (UL1703)	Type 2
product warranty	10 years
Output warranty of P _{max} (measurement Tolerance ± 3%)	Linear warranty* 

* 1) 1st year: 98%, 2) After 2nd year: 0.7% annual degradation, 3) 81.2% for 25 years

Temperature Coefficients

NOCT	45 ± 2 °C
P _{mp}	-0.41 %/°C
V _{oc}	-0.29 %/°C
I _{sc}	0.04 %/°C

Characteristic Curves



Electrical Properties (STC *)

	305 W	300 W	295 W	290 W
MPP voltage (V _{mpp})	32.1	32.0	31.8	31.8
MPP current (I _{mpp})	9.52	9.40	9.28	9.15
Open circuit voltage (V _{oc})	40.0	39.8	39.7	39.6
Short circuit current (I _{sc})	10.1	9.98	9.85	9.70
Module efficiency (%)	18.6	18.3	18.0	17.7
Operating temperature (°C)	-40 ~ +90			
Maximum system voltage (V)	1000 (IEC), 600 (UL)			
Maximum series fuse rating	20			
Power tolerance (%)	0 ~ +3			

* STC (Standard Test Condition): Irradiance 1000 W/m², module temperature 25 °C, AM 1.5

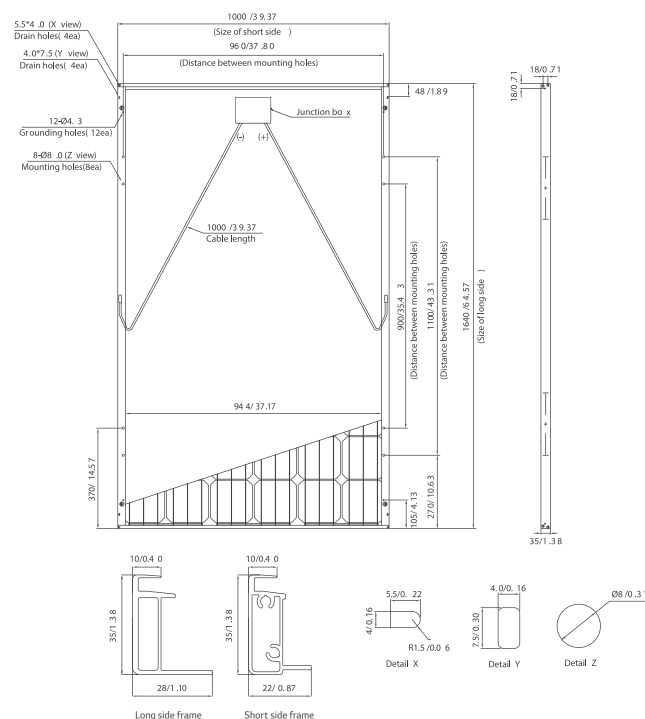
* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NOCT*)

	305 W	300 W	295 W	290 W
Maximum power (P _{mp})	223	220	215	212
MPP voltage (V _{mpp})	29.4	29.3	29.1	29.0
MPP current (I _{mpp})	7.59	7.50	7.40	7.30
Open circuit voltage (V _{oc})	37.0	36.9	36.8	36.7
Short circuit current (I _{sc})	8.14	8.05	7.94	7.82
Efficiency reduction (from 1000 W/m ² to 200 W/m ²)	< 2%			

* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

Dimensions (mm/in)



* The distance between the center of the mounting/grounding holes.



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06/17/2014

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