

olar ward

2013

WINNER

LUS X AWAR achieved for High Quality

Ecology



LG300N1C-A3 / LG295N1C-A3 / LG290N1C-A3 / LG285N1C-A3



N-type Material

MonoX[™] NeON uses n-type cells, which boasts higher mobility of electric charge, resulting in higher generation efficiency.



Nano Level Control

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







sided structure.



M 564573 121 Photovoltaic Modules

Near Zero LID (Light Induced Degradation)

MonoX[™] NeON is a high-yield module developed by LG Electronics. The company tries to concentrate its R&D capacities on developing a product which can practically increase the benefits (or values) to customers, beyond just the efficiency. This allowed the company to successfully introduce a high-yield module, MonoX[™] NeON, which uses highly efficient n-type materials, elaborate process control adopting a semiconductor processing solution, and double-

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



Double Sided Cell Structure

The rear of the cell used in MonoX[™] NeON will contribute to generation; the light beam reflected from the rear of the module is reabsorbed to generate a great amount of additional power.







About LG Electronics

LG Electronics is a global big player who has been committed to expanding its capacity, based on solar energy business as its future growth engine. We embarked on a solar energy source research program in 1985, supported by LG Group's rich experience in semi-conductor, LCD, chemistry, and materials industry. We successfully released the first MonoX[™] series on the market, in 2010, which were exported to 32 countries in 2 years, thereafter. In 2013, MonoX[™] NeON won "Intersolar Award", which proved it's the leader of innovation in the industry.

TM Mono

LG300N1C-A3 / LG295N1C-A3 / LG290N1C-A3 / LG285N1C-A3

Mechanical Properties

(10		
6 x 10		
LG		
Monocrystalline		
156 x 156 mm / 6 x 6 in		
3		
1640 x 1000 x 35 mm		
64.57 x 39.37 x 1.38 in		
5400 Pa / 113 psf		
2400 Pa / 50 psf		
16.8 ± 0.5 kg / 36.96 ± 1.1 lb		
MC4 connector IP 67		
IP 67 with 3 bypass diodes		
2 x 1000 mm / 2 x 39.37 in		
High transmission tempered glass		
Anodized aluminum		

Electrical Properties (STC*)

	300 W	295 W	290 W	285 W
MPP voltage (Vmpp)	32.0	31.8	31.8	31.6
MPP current (Impp)	9.40	9.28	9.15	9.03
Open circuit voltage (Voc)	39.8	39.7	39.6	39.5
Short circuit current (Isc)	9.98	9.85	9.70	9.59
Module efficiency (%)	18.3	18.0	17.7	17.4
Operating temperature (°C)	-40 ~ +90			
Maximum system voltage (V)	1000 (IEC), 600 (UL)			
Maximum series fuse rating (A)	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*)

Dimensions (mm/in)

Certifications and Warranty

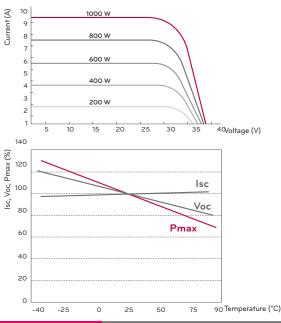
Certifications (In Progress)	IEC 61215, IEC 61730-1/-2, UL 1703,		
	ISO 9001, IEC 61701, IEC 62716		
Product warranty	10 years		
Output warranty of Pmax (measurement Tolerance ± 3%)	Linear warranty* 嬔		

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

Temperature Coefficients

NOCT	45 ± 2 °C	
Pmpp	-0.41 %/°C	
Voc	-0.29 %/°C	
lsc	0.04 %/°C	

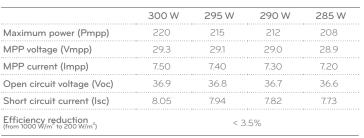
Characteristic Curves



Life's Good



Contact: lg.solar@lge.com www.lgsolarusa.com



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

5/1.38 28/1.10 22/0.8 1000/39.37 5.5*4.0 (X view (Size of short side Long side frame Short side frame 4.0*7.5 (Y view 960/37.80 (Distance between mounting holes) 18/0.71 11-11-48/1.89 Junction box 12-Ø4.3 nding holes(12e (-) 8-Ø8.0(Z view) Mounting holes(8ea) 1000/39.37 Cable len-'' 900/35.43 (Distance between mounting holes) 1100/43.31 (Distance between mounting holes) R1.5/0.06 Detail X 1640/64.57 Size of long 0/0.1 944/37.17 370/14.57 Detail 7 70/10 _____ 35/1.38 * The distance betw een the center of the mounting/grounding holes

Product specifications are subject to change without notice "LG Life's Good" is a registrated trademark of LG Corp. All other trademarks are the property of their respective owners DS-N-60-C-US-F-EN-31002



Ø8/0.31

10/0.40

10/0.40

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