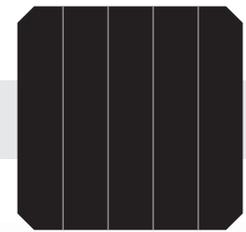


# LG MonoX<sup>®</sup> Plus

LG300S1C-A5 | LG295S1C-A5 | LG290S1C-A5



60

## 300W | 295W | 290W

LG MonoX<sup>®</sup> Plus is an extremely robust P-type module that maintains high performance by using LG's LiLY Technology.

LG also provides an enhanced warranty to for LiLY Technology modules.



## Feature



### Enhanced Performance Warranty

LG Mono X<sup>®</sup> Plus has an enhanced performance warranty. The initial degradation of cells has been improved from -3% to -2%, and the annual rate of degradation has fallen from -0.6%/yr to -0.55%/yr.



### Reduced LID

The LG MonoX<sup>®</sup> Plus remains resilient against light induced degradation through the use of LG's LiLY Technology.



### Extended Product Warranty

As well as the enhanced performance warranty, LG has extended the product warranty of the LG Mono X<sup>®</sup> Plus for an additional 2 years.



### Outstanding Durability

The LG MonoX<sup>®</sup> Plus's stress endurance is rated to handle up to 6000 Pa on the front side and up to 5400 Pa on the rear side.

## About LG Electronics

LG Electronics is a global big player, committed to expanding its operations with the solar market. The company first embarked on a solar energy source research program in 1985, supported by LG Group's vast experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first MonoX<sup>®</sup> series to the market, which is now available in 32 countries. The NeON<sup>®</sup> (previous MonoX<sup>®</sup> NeON), NeON<sup>®</sup>2, NeON<sup>®</sup>2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG Solar's lead, innovation and commitment to the industry.



# LG MonoX<sup>®</sup> Plus

LG300S1C-A5 | LG295S1C-A5 | LG290S1C-A5

## Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / P-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
# of Busbar	4
Dimensions (L x W x H)	1,686 x 1,016 x 40 mm 66.39 x 40 x 1.57 in
Front Load	6,000Pa / 125 psf
Rear Load	5,400Pa / 113 psf
Weight	18.0 kg / 39.68 lb
Connector Type	MC4 (MC)
Junction Box	IP68 with 3 Bypass Diodes
Cables	1,000 mm x 2 ea / 39.37 in x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

## Certifications and Warranty

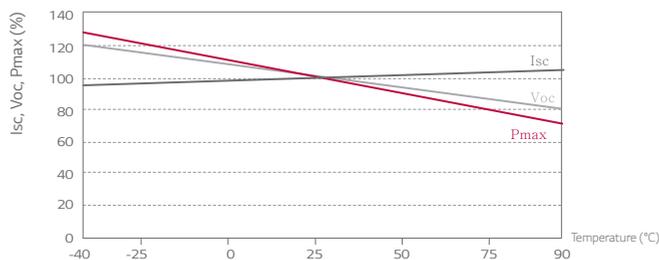
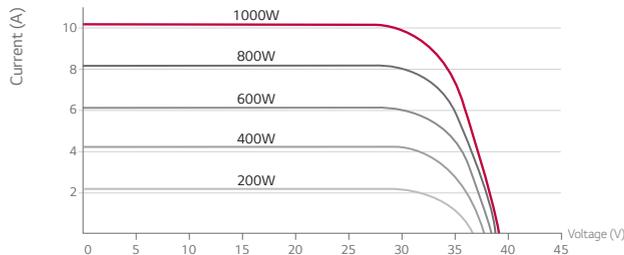
Certifications	IEC 61215, IEC 61730-1/-2
	UL 1703
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
	ISO 9001
Module Fire Performance	Type 1 (UL 1703)
Fire Rating	Class C (ULC/ORD C. 1703, IEC 61730)
Product Warranty	12 Years
Output Warranty of Pmax	Linear Warranty*

\* 1) 1st year: 98%, 2) After 1st year: 0.55% annual degradation, 3) 84.8% for 25 years

## Temperature Characteristics

NOCT	[ °C ]	45 ± 3
Pmax	[%/°C]	-0.41
Voc	[%/°C]	-0.30
Isc	[%/°C]	0.03

## Characteristic Curves



## Electrical Properties (STC\*)

Model		LG300S1C-A5	LG295S1C-A5	LG290S1C-A5
Maximum Power (Pmax)	[W]	300	295	290
MPP Voltage (Vmpp)	[V]	31.7	31.3	31.0
MPP Current (Impp)	[A]	9.47	9.43	9.36
Open Circuit Voltage (Voc)	[V]	38.9	38.6	38.3
Short Circuit Current (Isc)	[A]	10.07	10.02	9.97
Module Efficiency	[%]	17.5	17.2	16.9
Operating Temperature	[°C]	-40 ~ +90		
Maximum System Voltage	[V]	1,000 (UL / IEC)		
Maximum Series Fuse Rating	[A]	20		
Power Tolerance	[%]	0 ~ +3		

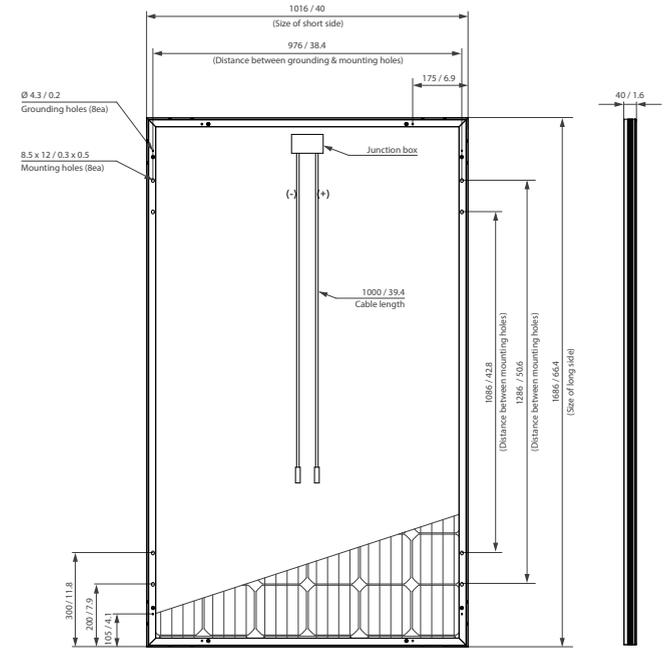
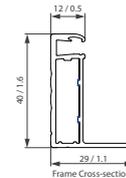
\* STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5  
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

## Electrical Properties (NOCT\*)

Model		LG300S1C-A5	LG295S1C-A5	LG290S1C-A5
Maximum Power (Pmax)	[W]	220	216	212
MPP Voltage (Vmpp)	[V]	29.1	28.7	28.4
MPP Current (Impp)	[A]	7.56	7.53	7.47
Open Circuit Voltage (Voc)	[V]	36.0	35.7	35.4
Short Circuit Current (Isc)	[A]	8.10	8.06	8.02

\* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s

## Dimensions (mm / inch)



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



LG Electronics Inc.  
Solar Business Division  
LG Twin Towers, 128 Yeoui-daero, Yeongdeungpo-gu, Seoul  
07336, Korea  
www.lg-solar.com

Product specifications are subject to change without notice.  
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