

LG MonoX[®] Plus

LG300S1W-A5 | LG295S1W-A5 | LG290S1W-A5



300W | 295W | 290W

LG MonoX[®] 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.

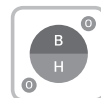


Feature



Enhanced Performance Warranty

LG Mono X[®] 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 -0.55%/yr to -0.5%/yr.



Reduced LID

The LG MonoX[®] 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[®] Plus from 15years to 25years.



Outstanding Durability

The LG MonoX[®] 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[®] series to the market, which is now available in 32 countries. The NeON[®] (previous MonoX[®] NeON), NeON[®]2, NeON[®]2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG Solar's lead, innovation and commitment to the industry.



LG Mono X[®] Plus

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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), PV-JM601A(JMTHY)
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

* Please refer to the installation manual for the details.

Certifications and Warranty

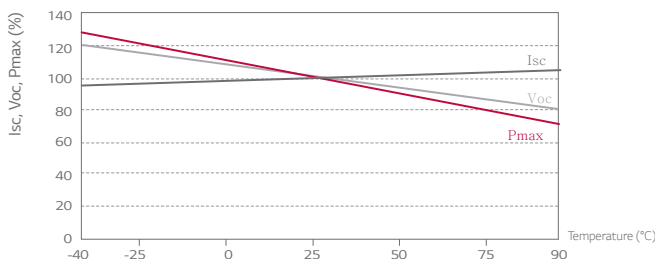
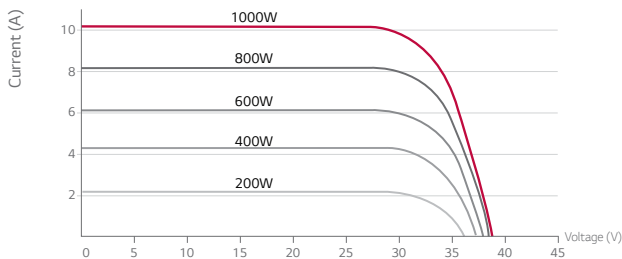
Certifications	IEC 61215, IEC 61730-1/-2
	UL 1703
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
	ISO 9001
Module Fire Performance	Type 1 (UL 1703)
Fire Rating	Class C (ULC/ORD C 1703, IEC 61730)
Product Warranty	25 Years
Output Warranty of Pmax	Linear Warranty*

* 1) 1st year: 98%, 2) After 1st year: 0.5%p annual degradation, 3) 86% 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		LG300S1W-A5	LG295S1W-A5	LG290S1W-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/m², cell temperature 25 °C, AM 1.5

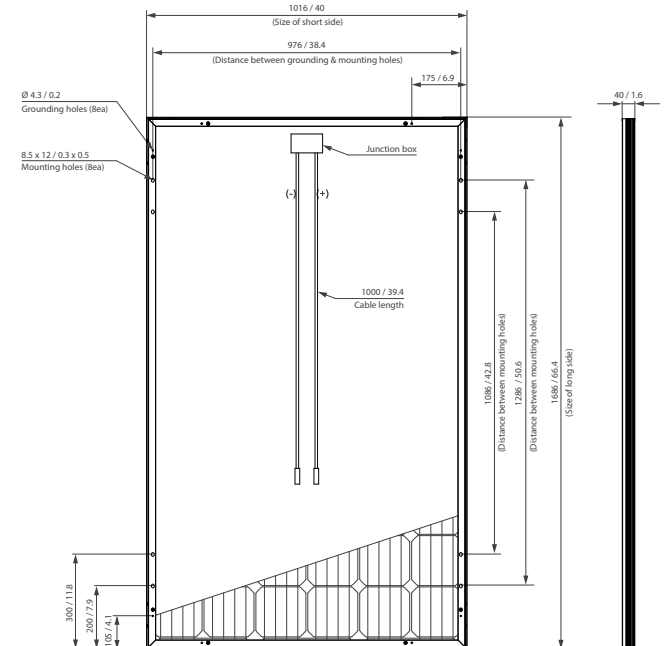
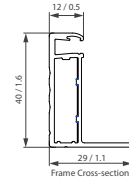
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NOCT*)

Model		LG300S1W-A5	LG295S1W-A5	LG290S1W-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/m², ambient temperature 20 °C, wind speed 1 m/s

Dimensions (mm / inch)



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



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Product specifications are subject to change without notice.
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