

LG MonoX[®] Plus

LG300S1C-A5

LG295S1C-A5

LG290S1C-A5

60 cell

LG MonoX[®] Plus is LG Electronics' high-quality monocrystalline module. The quality is the result of our strong commitment to developing a module to improve benefits for customers. Features of MonoX[®] Plus include durability, convenient installation, and aesthetic exterior.



Enhanced Performance Warranty

LG Mono X[®] Plus has an enhanced performance warranty. The initial degradation of cells has -2%, and the annual rate of degradation has fallen -0.55%/yr.



Reduced LID

LG Mono X[®] Plus has reduced the initial degradation of solar cells by applying LG's new LiLY (LID-improvement for Lifetime Yield) Technology, which controls the reaction of Boron and Oxygen, the main cause of LID (Light Induced Degradation).



Improved Product Warranty

As well as the enhanced performance warranty, LG Mono X[®] Plus is covered by product warranty for 12 years.



Light and Convenient

LG Mono X[®] Plus has been carefully designed, it weighs just 18.0kg (39.69 lb) and has better grips that allow for quick installation.

About LG Electronics

LG Electronics is a global 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 first Mono X[®] series to the market in 2010, which were exported to 32 countries in the following 2 years, thereafter. In 2013, NeON[™] (previously known as Mono X[®] NeON) & 2015 NeON2 with CELLO technology won "Intersolar Award", which proved LG is the leader of innovation in the industry.

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)	1686 x 1016 x 40 mm 66.38 x 40 x 1.57 inch
Front Load	6000Pa
Rear Load	5400Pa
Weight	18 kg
Connector Type	MC4
Junction Box	IP68 with 3 Bypass Diodes
Cables	1000 mm x 2 ea / 39.37 in x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

Certifications and Warranty

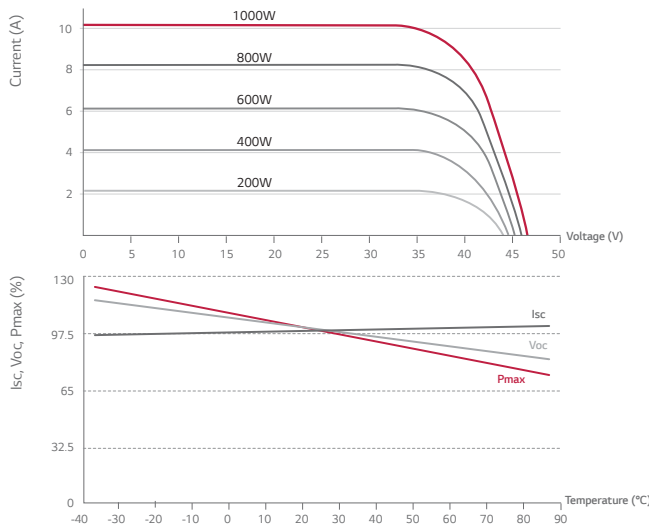
Certifications	IEC 61215, IEC 61730-1/-2 UL 1703 IEC 61701 (Salt mist corrosion test) IEC 62716 (Ammonia corrosion test) ISO 9001
Module Fire Performance (USA)	Type 1
Fire Rating (CANADA)	Class C (ULC / ORD C1703)
Product Warranty	12 years
Output Warranty of Pmax	Linear warranty**

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

Temperature Characteristics

NOCT	45 ± 3 °C
Pmpp	-0.41%/°C
Voc	-0.30%/°C
Isc	0.03 %/°C

Characteristic Curves



Electrical Properties (STC *)

Module	300W	295W	290W
Maximum Power (Pmax)	300	295	290
MPP Voltage (Vmpp)	31.6	31.3	31.0
MPP Current (Impp)	9.50	9.43	9.36
Open Circuit Voltage (Voc)	38.9	38.6	38.3
Short Circuit Current (Isc)	10.07	10.02	9.97
Module Efficiency	17.5	17.2	16.9
Operating Temperature	-40 ~ +90		
Maximum System Voltage	1000		
Maximum Series Fuse Rating	20		
Power Tolerance (%)	0 ~ +3		

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

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

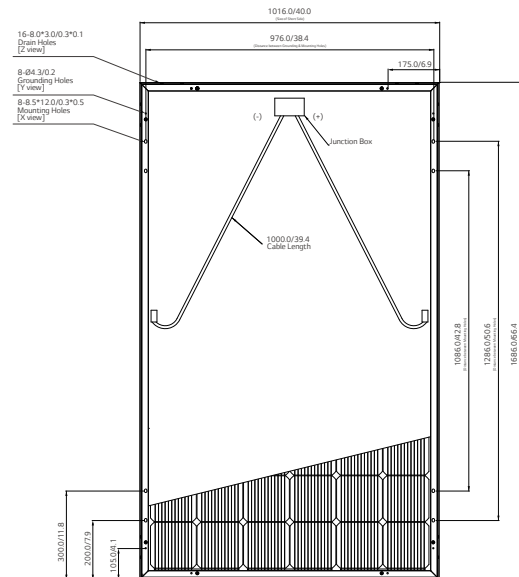
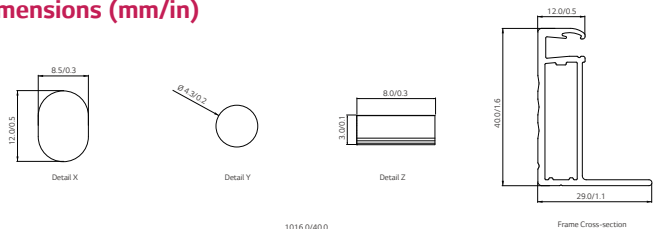
* The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -2.0%.

Electrical Properties (NOCT*)

Module	300W	295W	290W
Maximum Power (Pmax)	220	216	212
MPP Voltage (Vmpp)	29.1	28.7	28.4
MPP Current (Impp)	7.56	7.53	7.47
Open Circuit Voltage (Voc)	36.0	35.7	35.4
Short Circuit Current (Isc)	8.10	8.06	8.02

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

Dimensions (mm/in)



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

