

**LG MonoX<sup>®</sup> Plus** **LG300S1C-A5**

60 cell

LG MonoX<sup>®</sup> 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<sup>®</sup> Plus include durability, convenient installation, and aesthetic exterior.



**Enhanced Performance Warranty**

LG Mono X<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> Plus is covered by product warranty for 12 years.



**Light and Convenient**

LG Mono X<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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

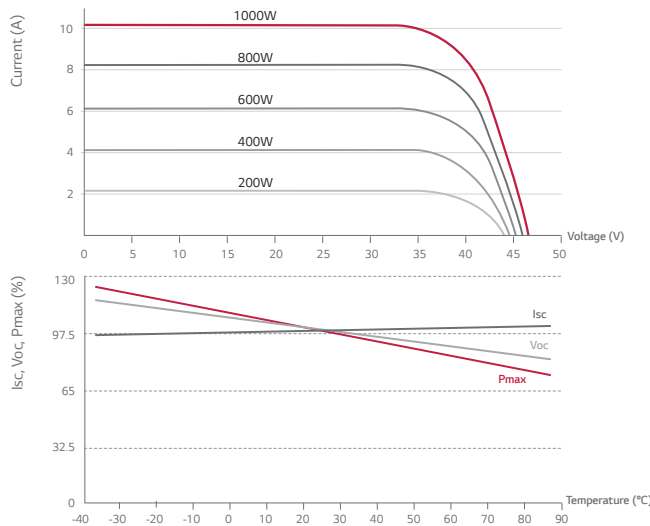
Certifications	IEC 61215, IEC 61730-1/-2 UL 1703 IEC 61701 (Salt mist corrosion test) IEC 62716 (Ammonia corrosion test) ISO 9001
Module Fire Performance (USA)	Type 1
Fire Rating (CANADA)	Class C (ULC / ORD C1703)
Product Warranty	12 years
Output Warranty of Pmax	Linear warranty**

\*\* 1) 1st year : 98%, 2) After 1st 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
Maximum Power (Pmax)	300
MPP Voltage (Vmpp)	31.6
MPP Current (Impp)	9.50
Open Circuit Voltage (Voc)	38.9
Short Circuit Current (Isc)	10.07
Module Efficiency	17.5
Operating Temperature	-40 ~ +90
Maximum System Voltage	1000
Maximum Series Fuse Rating	20
Power Tolerance (%)	0 ~ +3

\* STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, Ambient Temperature 25 °C, AM 1.5

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

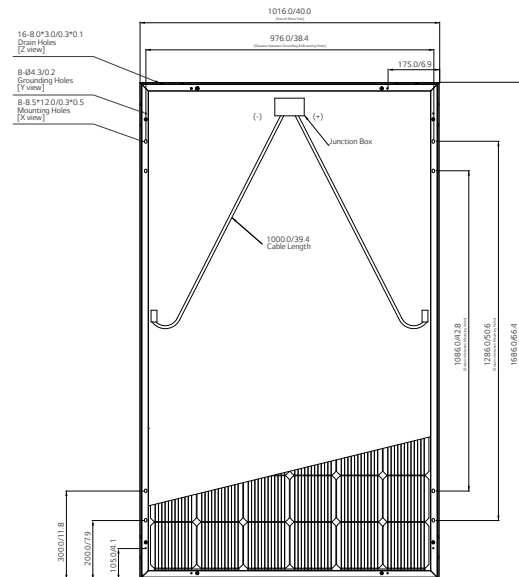
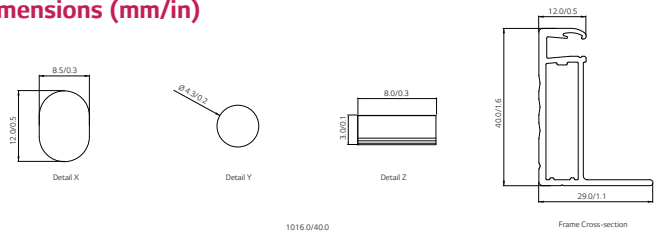
\* The typical change in module efficiency at 200 W/m<sup>2</sup> in relation to 1000 W/m<sup>2</sup> is -2.0%.

### Electrical Properties (NOCT\*)

Module	300W
Maximum Power (Pmax)	220
MPP Voltage (Vmpp)	29.1
MPP Current (Impp)	7.56
Open Circuit Voltage (Voc)	36.0
Short Circuit Current (Isc)	8.10

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

### Dimensions (mm/in)



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

