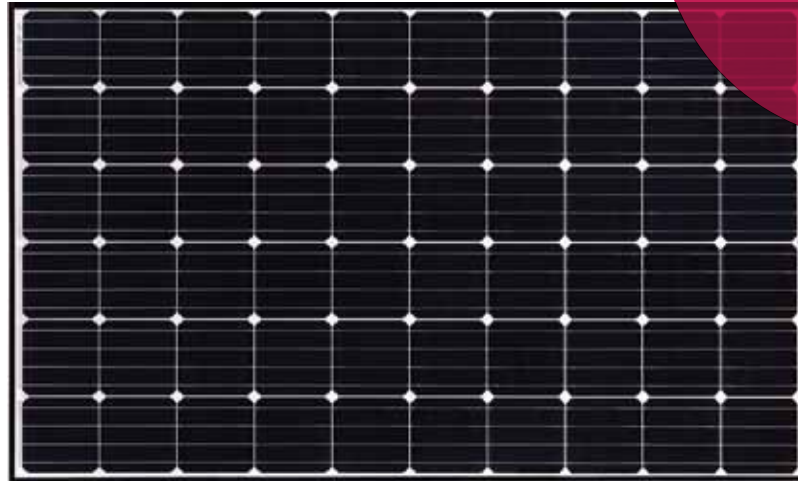




## LG MonoX<sup>®</sup> Plus

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 -0.5%/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 15 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<sup>™</sup> (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

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| <b>Cells</b>                  | 6 x 10                                        |
| <b>Cell Vendor</b>            | LG                                            |
| <b>Cell Type</b>              | Monocrystalline / P-type                      |
| <b>Cell Dimensions</b>        | 161.7 x 161.7 mm / 6 inches                   |
| <b># of Busbar</b>            | 4                                             |
| <b>Dimensions (L x W x H)</b> | 1686 x 1016 x 40 mm<br>66.38 x 40 x 1.57 inch |
| <b>Front Load</b>             | 6000Pa                                        |
| <b>Rear Load</b>              | 5400Pa                                        |
| <b>Weight</b>                 | 18 kg                                         |
| <b>Connector Type</b>         | MC4                                           |
| <b>Junction Box</b>           | IP68 with 3 Bypass Diodes                     |
| <b>Cables</b>                 | 1000 mm x 2 ea / 39.37 in x 2 ea              |
| <b>Glass</b>                  | High Transmission Tempered Glass              |
| <b>Frame</b>                  | Anodized Aluminium                            |

## Certifications and Warranty

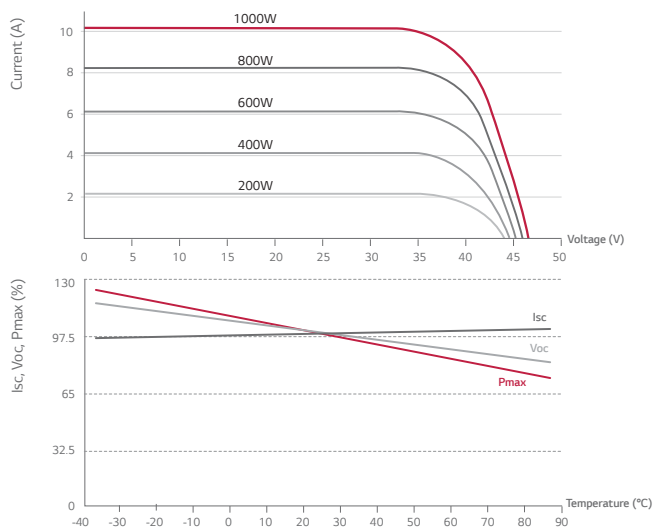
|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Certifications</b>                | IEC 61215, IEC 61730-1/-2            |
|                                      | UL 1703                              |
|                                      | IEC 61701 (Salt mist corrosion test) |
|                                      | IEC 62716 (Ammonia corrosion test)   |
|                                      | ISO 9001                             |
| <b>Module Fire Performance (USA)</b> | Type 1                               |
| <b>Fire Rating (CANADA)</b>          | Class C (ULC / ORD C1703)            |
| <b>Product Warranty</b>              | 15 years                             |
| <b>Output Warranty of Pmax</b>       | Linear warranty**                    |

\*\* 1) 1st year : 98%, 2) After 1st year : 0.5% annual degradation, 3) 25 years : 86%

## Temperature Characteristics

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

## Characteristic Curves



### Electrical Properties (STC \*)

|                                    |             |
|------------------------------------|-------------|
| <b>Module</b>                      | <b>300W</b> |
| <b>Maximum Power (Pmax)</b>        | 300         |
| <b>MPP Voltage (Vmpp)</b>          | 31.6        |
| <b>MPP Current (Imp)</b>           | 9.50        |
| <b>Open Circuit Voltage (Voc)</b>  | 38.9        |
| <b>Short Circuit Current (Isc)</b> | 10.07       |
| <b>Module Efficiency</b>           | 17.5        |
| <b>Operating Temperature</b>       | -40 ~ +90   |
| <b>Maximum System Voltage</b>      | 1000        |
| <b>Maximum Series Fuse Rating</b>  | 20          |
| <b>Power Tolerance (%)</b>         | 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.

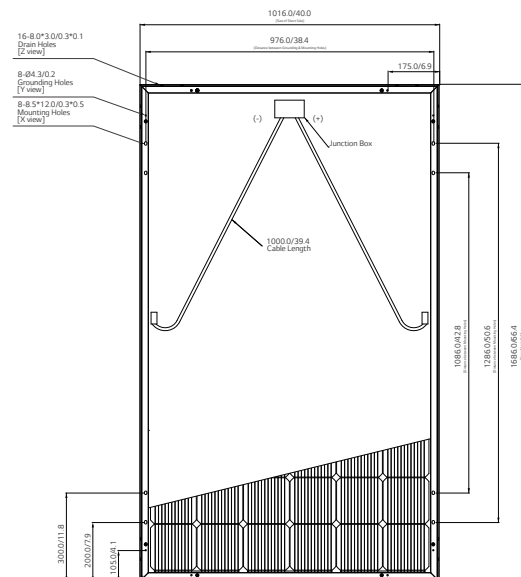
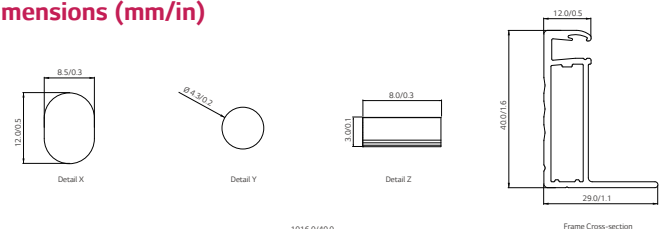
\* The typical change in module efficiency at 200 W/m<sup>2</sup> in relation to 1000 W/m<sup>2</sup> is -2.0%.

### Electrical Properties (NOCT\*)

|                                    |             |
|------------------------------------|-------------|
| <b>Module</b>                      | <b>300W</b> |
| <b>Maximum Power (Pmax)</b>        | 220         |
| <b>MPP Voltage (Vmpp)</b>          | 29.1        |
| <b>MPP Current (Impp)</b>          | 7.56        |
| <b>Open Circuit Voltage (Voc)</b>  | 36.0        |
| <b>Short Circuit Current (Isc)</b> | 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.

