

# 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 -0.55%/yr to -0.5%/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 3 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 Mono X<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<br>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                            |

\* Please refer to the installation manual for the details.

## Certifications and Warranty

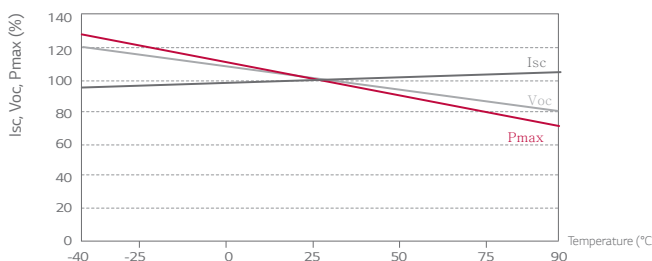
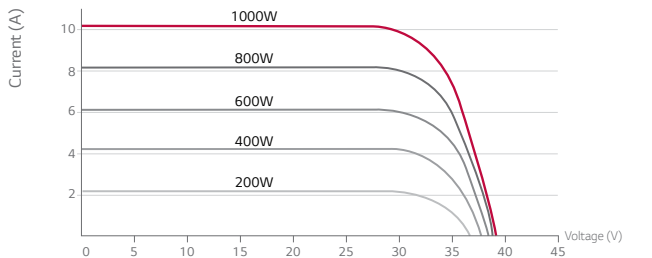
|                         |                                      |
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| Certifications          | IEC 61215, IEC 61730-1/-2            |
|                         | UL 1703                              |
|                         | IEC 61701 (Salt mist 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        | 15 Years                             |
| Output Warranty of Pmax | Linear Warranty*                     |

\* 1) 1st year: 98%, 2) After 1st year: 0.5% 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                       | 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

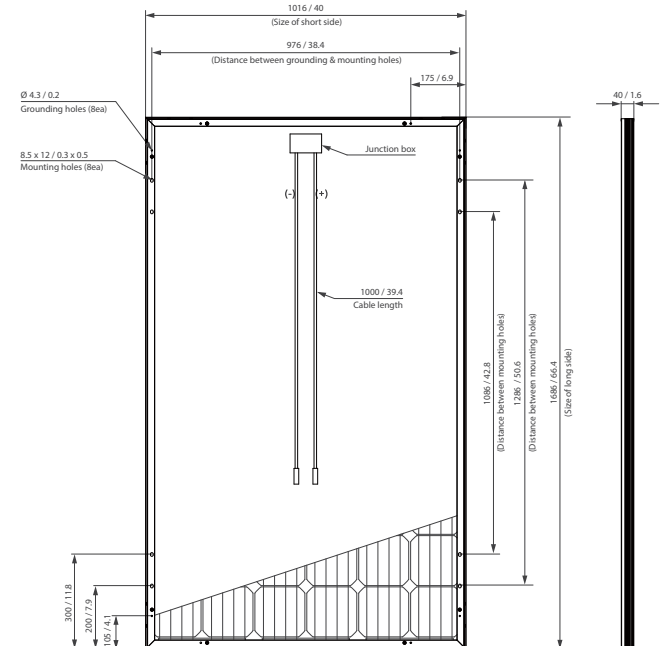
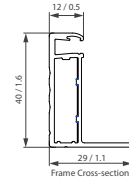
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

## 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.



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Product specifications are subject to change without notice.  
DS-A5-60-C-G-F-EN-80115



Official Distributor of LG Solar Panels in IRAN



# LG MonoX<sup>®</sup> Plus

LG360S2W-A5 | LG355S2W-A5 | LG350S2W-A5

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## 360W | 355W | 350W

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 by LiLY Technology.



## Feature



### 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

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 Mono X<sup>®</sup> Plus is covered by product warranty for 15 years.



### Outstanding Durability

The LG MonoX<sup>®</sup> Plus's stress endurance is rated to handle up to 5400 Pa on the front side and up to 4300 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 Mono X<sup>®</sup> Plus

LG360S2W-A5 | LG355S2W-A5 | LG350S2W-A5

## Mechanical Properties

|                        |  |
|------------------------|--|
| Cells                  | 6 x 12   |
| 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) | 2,024 x 1,024 x 40 mm<br>79.69 x 40.31 x 1.57 in |
| Front Load             | 5,400 Pa / 113 psf*                              |
| Rear Load              | 4,300 Pa / 90psf*                                |
| Weight                 | 21.7kg / 47.84 lb                                |
| Connector Type         | MC4 (MC) or JM601A (JMTHY)                       |
| Junction Box           | IP68 with 3 Bypass Diodes                        |
| Cables                 | 1,200 mm x 2 ea / 47.24 in x 2 ea                |
| Glass                  | High Transmission Tempered Glass                 |
| Frame                  | Anodized Aluminium                               |

\* Please refer to the installation manual for the details.

## Certifications and Warranty

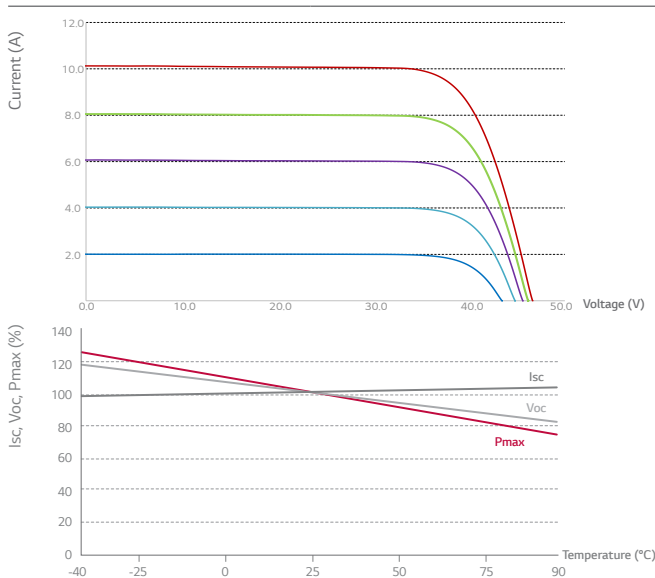
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| Certifications          | IEC 61215, IEC 61730-1/-2            |
|                         | UL 1703                              |
|                         | IEC 61701 (Salt mist corrosion test) |
|                         | IEC 62716 (Ammonia corrosion test)   |
|                         | ISO 9001                             |
| Module Fire Performance | Type 1 (UL 1703)                     |
| Fire Rating             | Class C (ULC/ORD C 1703, IEC 61730)  |
| Product Warranty        | 15 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                       |      | LG360S2W-A5           | LG355S2W-A5 | LG350S2W-A5 |
|-----------------------------|------|-----------------------|-------------|-------------|
| Maximum Power (Pmax)        | [W]  | 360                   | 355         | 350         |
| MPP Voltage (Vmpp)          | [V]  | 37.7                  | 37.4        | 37.1        |
| MPP Current (Impp)          | [A]  | 9.56                  | 9.50        | 9.44        |
| Open Circuit Voltage (Voc)  | [V]  | 46.6                  | 46.4        | 46.3        |
| Short Circuit Current (Isc) | [A]  | 10.12                 | 10.07       | 10.02       |
| Module Efficiency           | [%]  | 17.4                  | 17.1        | 16.9        |
| Operating Temperature       | [°C] | -40 ~ +90             |             |             |
| Maximum System Voltage      | [V]  | 1,000(IEC), 1,500(UL) |             |             |
| Maximum Series Fuse Rating  | [A]  | 20                    |             |             |
| Power Tolerance             | [%]  | 0 ~ +3                |             |             |

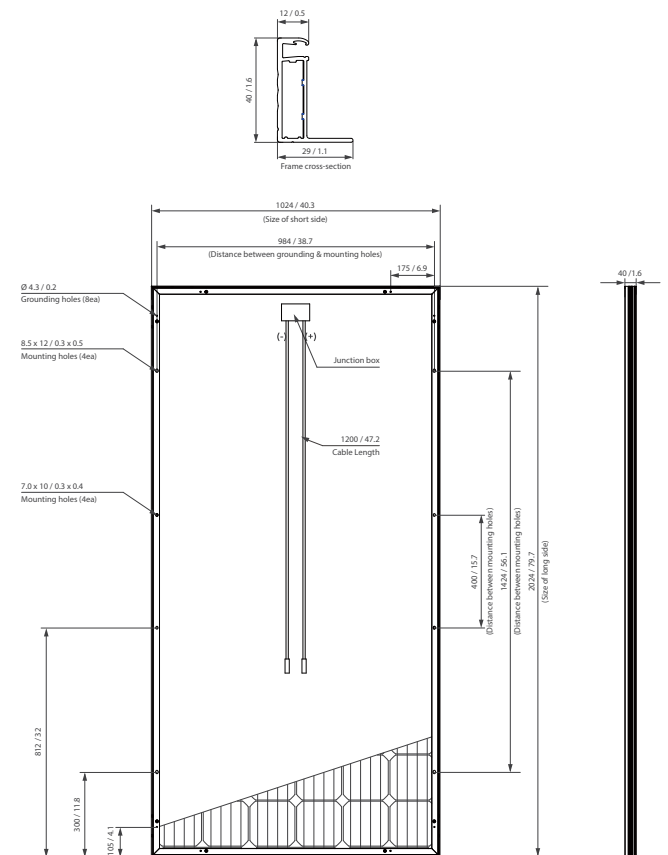
\* STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5  
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

## Electrical Properties (NOCT\*)

| Model                       |     | LG360S2W-A5 | LG355S2W-A5 | LG350S2W-A5 |
|-----------------------------|-----|-------------|-------------|-------------|
| Maximum Power (Pmax)        | [W] | 264         | 260         | 257         |
| MPP Voltage (Vmpp)          | [V] | 34.6        | 34.3        | 34.0        |
| MPP Current (Impp)          | [A] | 7.63        | 7.58        | 7.54        |
| Open Circuit Voltage (Voc)  | [V] | 43.2        | 43.0        | 42.9        |
| Short Circuit Current (Isc) | [A] | 8.14        | 8.10        | 8.06        |

\* 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.



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