

LG Mono X[®] Plus

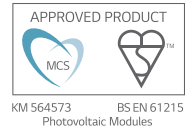
LG285S1C-G4

LG280S1C-G4

LG275S1C-G4

60 cell

LG Mono X[®] 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 LG Mono X[®] Plus include durability, convenient installation, and aesthetic exterior.



Enhanced Performance Warranty

LG Mono X[®] Plus provides the enhanced performance warranty. The initial degradation has been improved from -3% to -2%, and the annual degradation has also changed from -0.7%/yr to -0.6%/yr.



Reduced LID (LiLY Technology)

LG Mono X[®] Plus has improved the initial degradation by applying LG's new LiLY (LID-improvement for Lifetime Yield) Technology, which controls formation of Boron-Oxygen pair, the key factor of LID.



Improved Product Warranty

In addition to the enhanced performance warranty, LG has extended the product warranty of LG Mono X[®] Plus for additional 2 years with its newly reinforced frame design.



Aesthetic Roof

LG Mono X[®] Plus may increase the house value with its shiny black frames. Also, it looks similar to all-black module from a long distance.



Outstanding Durability

With newly reinforced frame design, LG Mono X[®] Plus can endure the static snow load up to 6000 Pa, and the static wind load up to 5400 Pa.



Light and Convenient

LG Mono X[®] Plus is carefully designed to benefit installers by allowing quick installation with a weight of just 17kg and better grips.

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 the first Mono X[®] series to the market in 2010, which were exported to 32 countries in the following 2 years, thereafter. In 2013, LG NeON™ (previously known as Mono X[®] NeON) 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 | 156.75 x 156.75 mm / 6 inches |
| # of Busbar | 3 |
| Dimensions (L x W x H) | 1640 x 1000 x 40 mm 64.57 x 39.37 x 1.57 inch |
| Front Load | 6000 Pa / 125 psf |
| Rear Load | 5400 Pa / 113 psf |
| Weight | 17.0 ± 0.5 kg / 37.48 ± 1.1 lbs |
| Connector Type | MC4, MC4 Compatible, IP67 |
| Junction Box | IP67 with 3 Bypass Diodes |
| Length of Cables | 2 x 1000 mm / 2 x 39.37 inch |
| Glass | High Transmission Tempered Glass |
| Frame | Anodized Aluminum |

Certifications and Warranty

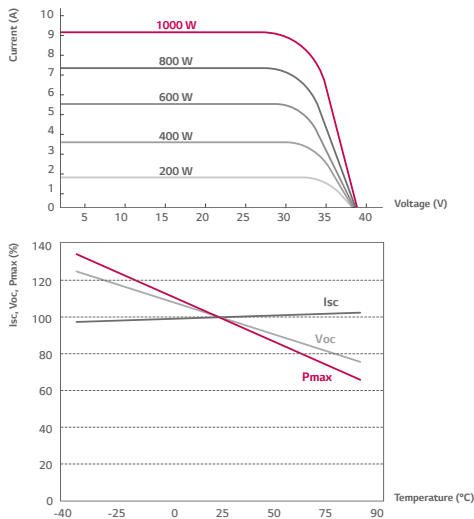
| | |
|-------------------------------|--------------------------------------|
| Certifications | IEC 61215, IEC 61730-1/-2 |
| | IEC 62716 (Ammonia Test) |
| | IEC 61701 (Salt Mist Corrosion Test) |
| | ISO 9001 |
| | UL 1703 |
| Module Fire Performance (USA) | Type 2 (UL 1703) |
| Fire Rating (for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

* 1) 1st year: 98%, 2) After 2nd year: 0.6%p annual degradation, 3) 83.6% for 25 years

Temperature Characteristics

| | |
|------|------------|
| NOCT | 46 ± 3 °C |
| Pmpp | -0.42 %/°C |
| Voc | -0.30 %/°C |
| Isc | 0.03 %/°C |

Characteristic Curves



Electrical Properties (STC *)

| Module Type | 285 W | 280 W | 275 W |
|--------------------------------|----------------|-------|-------|
| MPP Voltage (Vmpp) | 32.3 | 31.9 | 31.7 |
| MPP Current (Impp) | 8.88 | 8.78 | 8.68 |
| Open Circuit Voltage (Voc) | 39.0 | 38.8 | 38.7 |
| Short Circuit Current (Isc) | 9.43 | 9.33 | 9.26 |
| Module Efficiency (%) | 17.4 | 17.1 | 16.8 |
| Operating Temperature (°C) | -40 ~ +90 | | |
| Maximum System Voltage (V) | 1000 (IEC, UL) | | |
| Maximum Series Fuse Rating (A) | 15 | | |
| Power Tolerance (%) | 0 ~ +3 | | |

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

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

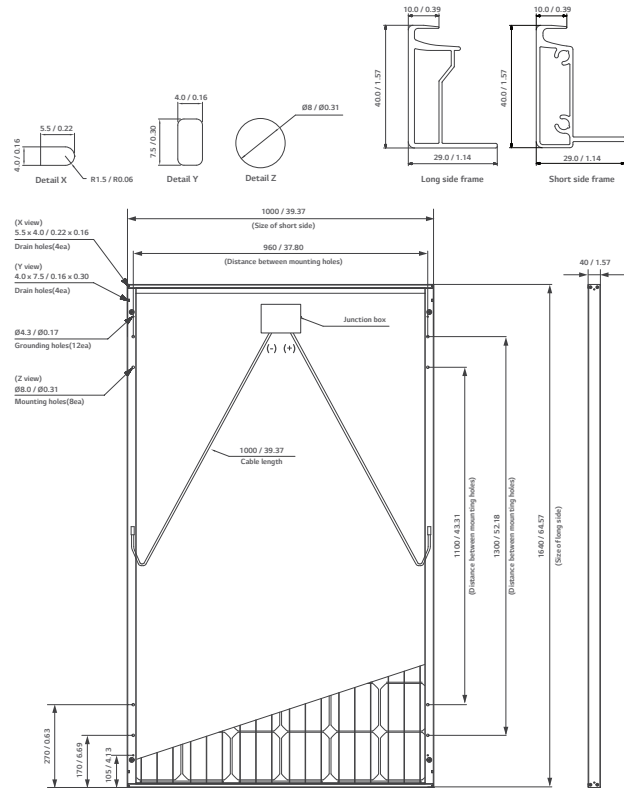
* The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -4.5%.

Electrical Properties (NOCT*)

| Module Type | 285 W | 280 W | 275 W |
|-----------------------------|-------|-------|-------|
| Maximum Power (Pmax) | 209 | 205 | 202 |
| MPP Voltage (Vmpp) | 29.5 | 29.3 | 29.1 |
| MPP Current (Impp) | 7.08 | 7.00 | 6.92 |
| Open Circuit Voltage (Voc) | 36.1 | 36.0 | 35.9 |
| Short Circuit Current (Isc) | 7.56 | 7.52 | 7.46 |

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

Dimensions (mm/in)



* 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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Innovation for a Better Life

