

LG Mono X[®] Plus **LG285S1C-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

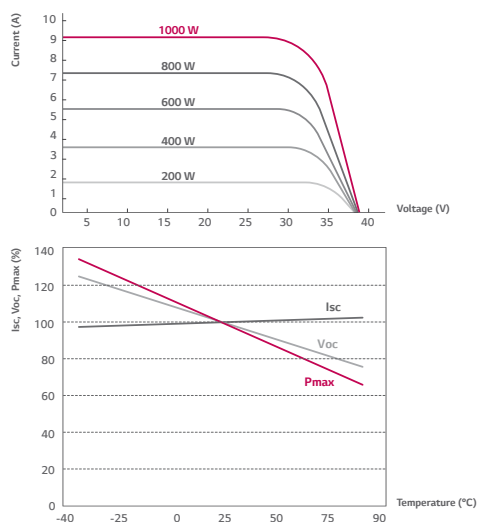
Certifications	IEC 61215, IEC 61730-1/-2 IEC 62716 (Ammonia Test) IEC 61701 (Salt Mist Corrosion Test) ISO 9001 UL 1703
Module Fire Performance (USA)	Type 2 (UL 1703)
Fire Rating (for CANADA)	Class C (ULC/ORD C1703)
Product Warranty	12 years
Output Warranty of Pmax	Linear warranty*

* 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
MPP Voltage (Vmp)	32.3
MPP Current (Imp)	8.88
Open Circuit Voltage (Voc)	39.0
Short Circuit Current (Isc)	9.43
Module Efficiency (%)	17.4
Operating Temperature (°C)	-40 ~ +90
Maximum System Voltage (V)	1000 (IEC, UL)
Maximum Series Fuse Rating (A)	15
Power Tolerance (%)	0 ~ +3

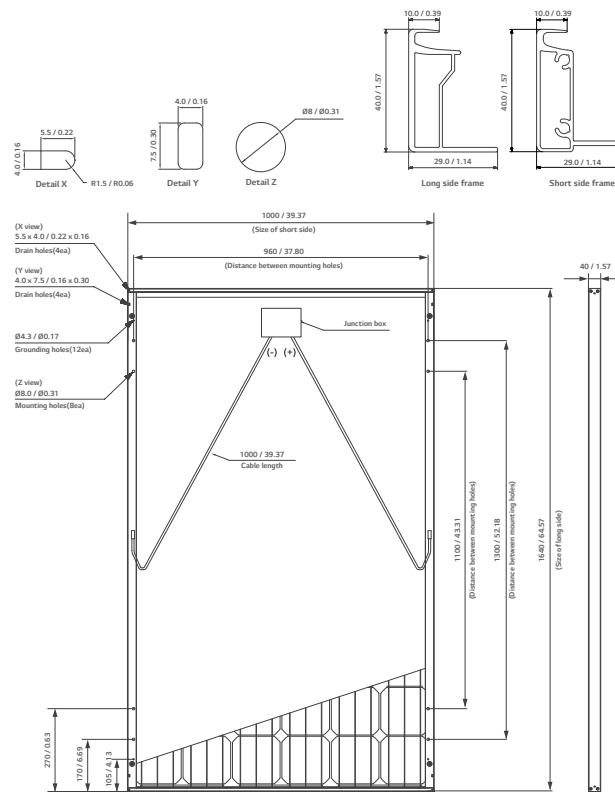
* STC (Standard Test Condition): Irradiance 1000 W/m², module temperature 25 °C, AM 1.5
* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.
* The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -4.5%.

Electrical Properties (NOCT*)

Module Type	285 W
Maximum Power (Pmax)	209
MPP Voltage (Vmp)	29.5
MPP Current (Imp)	7.08
Open Circuit Voltage (Voc)	36.1
Short Circuit Current (Isc)	7.56

* 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.

