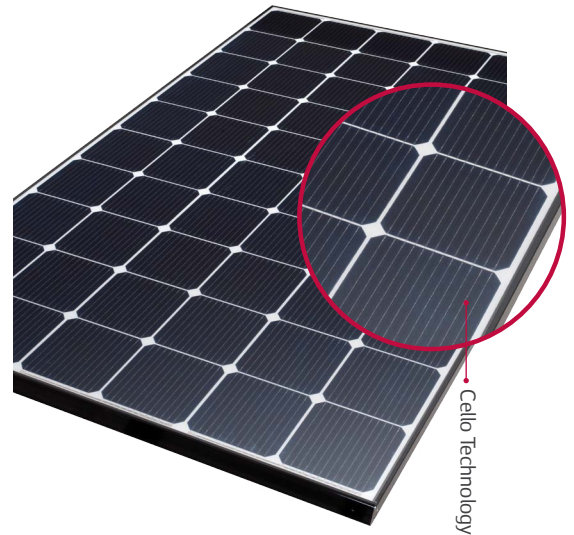


LG MonoX[®] 2

LG290S1C-L4 | LG285S1C-L4
LG280S1C-L4

60 Cell

LG MonoX[®] 2 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[®] 2 include durability, convenient installation, and aesthetic exterior.



Key Features



Enhanced Performance Warranty

LG Mono X[®] 2 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 -0.7%/year to -0.6%/year.



Improved Product Warranty

As well as the enhanced performance warranty, LG has extended the product warranty of the LG Mono X[®] 2 for an additional 2 years.



Outstanding Durability

With its newly reinforced frame design, the LG Mono X[®] 2 can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.



Reduced LID

The LG Mono X[®] 2 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, a key factor of LID (Light Induced Degradation).



Aesthetic Roof

LG Mono X[®] 2 has been designed with aesthetics in mind; thinner wires that appear all black at a distance. The product can increase the value of a property with its modern design.



17 kg

Light and Convenient

LG Mono X[®] 2 has been carefully designed, it weighs just 17kg and has better grips that allow for quick installation.

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[®] series to the market, which is now available in 32 countries. In 2013, the NeON™ (previous MonoX[®] NeON) won the "Intersolar Award", which demonstrates LG Solar's lead, innovation and commitment to the industry.

LG290S1C-L4 | LG285S1C-L4 | LG280S1C-L4

LG MonoX[®] 2

Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / P-type
Cell Dimensions	156.75 x 156.75 mm
# of Busbar	12 (Multi Wire Busbar)
Dimensions (L x W x H)	1640 x 1000 x 40 mm
Static snow Load	6000 Pa
Static wind Load	5400 Pa
Weight	17.0 ± 0.5 kg
Connector Type	MC4
Junction Box	IP67 with 3 Bypass Diodes
Length of Cables	2 x 1000 mm
Front cover	High Transmission Tempered Glass
Frame	Anodized Aluminum

Certifications and Warranty

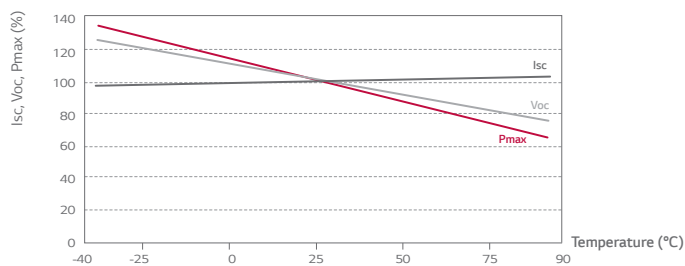
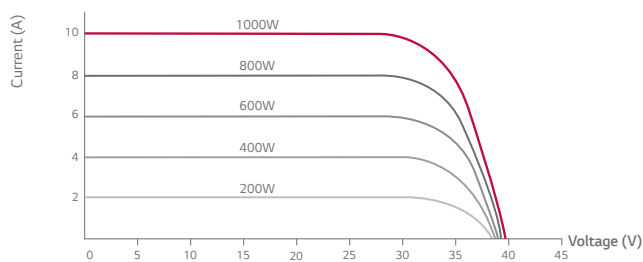
Certifications (In Progress)	IEC 61215, IEC 61730-1/-2
	ISO 9001, IEC 62716 (Ammonia Test)
	IEC 61701 (Salt Mist Corrosion Test)
Module Fire Performance	Class C
Product Warranty	12 Years
Output Warranty of Pmax (Measurement Tolerance ± 3%)	Linear Warranty ¹

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

Temperature Coefficients

NOCT	46 ± 3 °C
P _{mpp}	-0.42 %/°C
V _{oc}	-0.30 %/°C
I _{sc}	0.03 %/°C

Characteristic Curves



Electrical Properties (STC²)

	290 W	285 W	280 W
MPP Voltage V _{mpp} (V)	32.0	31.8	31.6
MPP Current I _{mp} (A)	9.09	8.99	8.89
Open Circuit Voltage V _{oc} (V)	38.9	38.7	38.5
Short Circuit Current I _{sc} (A)	9.64	9.53	9.42
Module Efficiency (%)	17.7	17.4	17.1
Operating Temperature (°C)	-40 ~ +90		
Maximum System Voltage (V)	1000		
Maximum Series Fuse Rating (A)	20		
Power Tolerance (%)	0 ~ +3		

² 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.

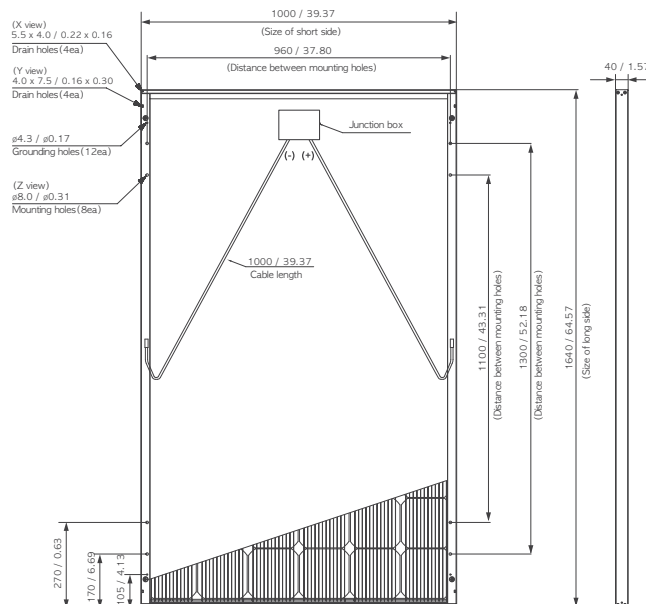
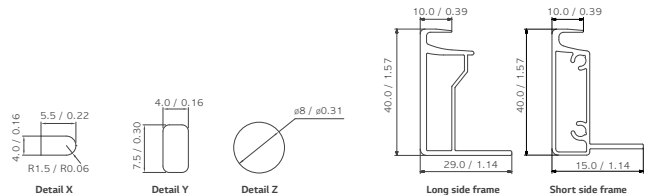
* The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -4.5%.

Electrical Properties (NOCT³)

	290 W	285 W	280 W
Maximum Power P _{max} (W)	212	208	204
MPP Voltage V _{mpp} (V)	29.2	29.0	28.8
MPP Current I _{mp} (A)	7.24	7.16	7.08
Open Circuit Voltage V _{oc} (V)	35.8	35.7	35.5
Short Circuit Current I _{sc} (A)	7.76	7.67	7.58

³ NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/s

Dimensions (mm)



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

