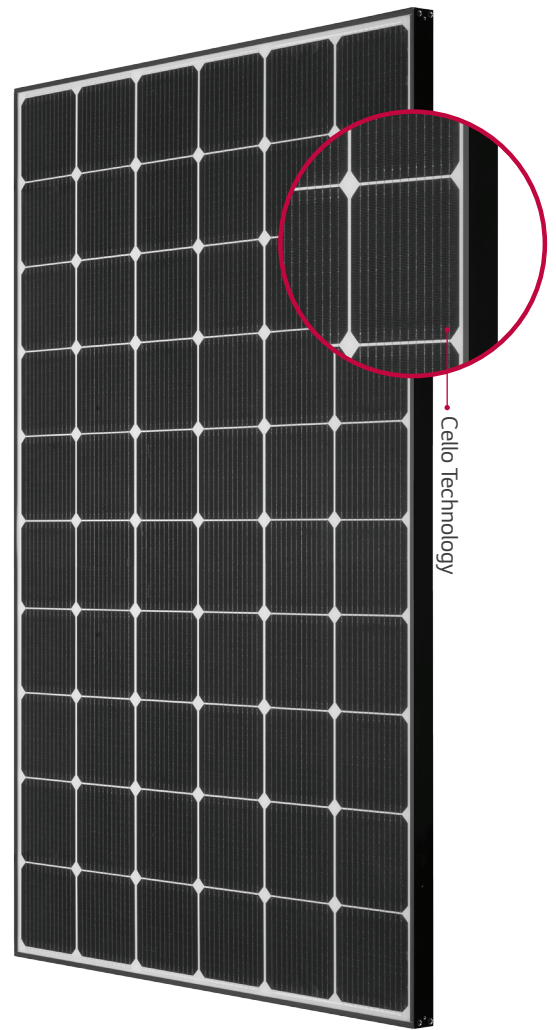


LG MonoX[®] 2

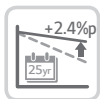
LG290S1C-L4 | LG285S1C-L4
LG280S1C-L4

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%/yr to -0.6%/yr.



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.



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. The NeON™ (previous MonoX[®] NeON) and NeON™2 won the "Intersolar AWARD" in 2013 and 2015, which demonstrates LG Solar's lead, innovation and commitment to the industry.

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 / 6 inches
# of Busbar	12 (Multi Wire Busbar)
Dimensions (L x W x H)	1640 x 1000 x 40 mm
Front Load	6000 Pa
Rear Load	5400 Pa
Weight	17.0 ± 0.5 kg
Connector Type	MC4, MC4 Compatible, IP67
Junction Box	IP67 with 3 Bypass Diodes
Length of Cables	2 x 1000 mm
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminum

Electrical Properties (STC*)

Module Type	290 W	285 W	280 W
MPP Voltage (Vmpp)	31.9	31.7	31.5
MPP Current (Impp)	9.10	9.00	8.90
Open Circuit Voltage (Voc)	39.0	38.8	38.6
Short Circuit Current (Isc)	9.61	9.50	9.39
Module Efficiency (%)	17.7	17.4	17.1
Operating Temperature (°C)	-40 ~ +90		
Maximum System Voltage (V)	1000		
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%

Certifications and Warranty

Certifications	IEC 61215, IEC 61730-1/-2
	IEC 62716 (Ammonia Test)
	IEC 61701 (Salt Mist Corrosion Test)
	IEC 62804 Ed. 1 drift (PID)
	ISO 9001
Fire Safety Class	Class C
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

Electrical Properties (NOCT*)

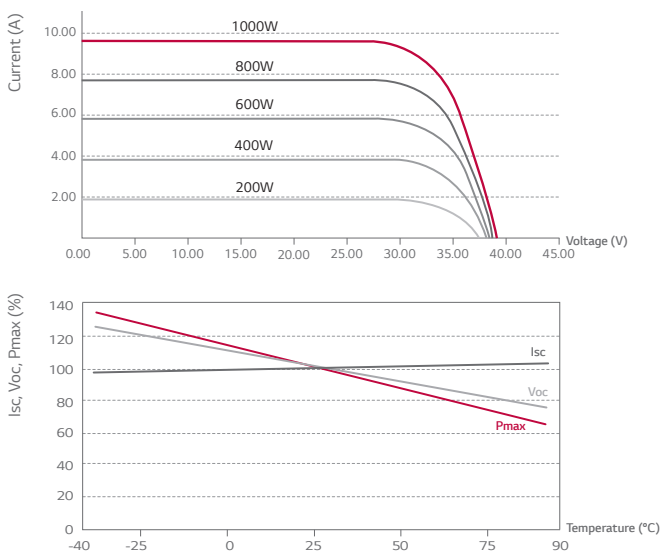
Module Type	290 W	285 W	280 W
Maximum Power (Pmax)	211	207	204
MPP Voltage (Vmpp)	29.1	28.9	28.7
MPP Current (Impp)	7.25	7.17	7.09
Open Circuit Voltage (Voc)	35.9	35.7	35.5
Short Circuit Current (Isc)	7.74	7.65	7.56

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

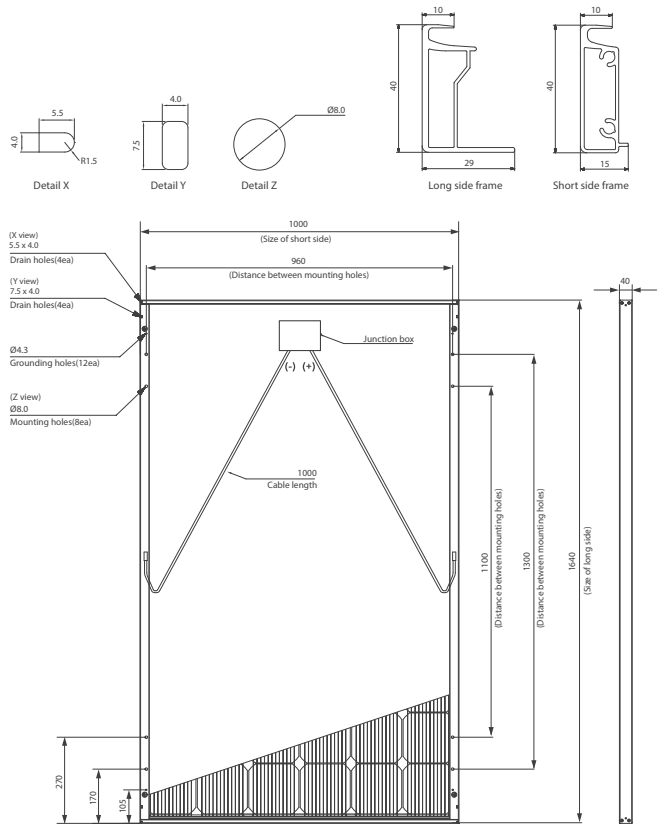
Temperature Characteristics

NOCT	46 ± 3 °C
Pmax	-0.39 %/°C
Voc	-0.30 %/°C
Isc	0.05 %/°C

Characteristic Curves



Dimensions (mm)



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

