LG Life's Good

Mono X™

LG Mono X™ Solar Modules

LG260S1C / LG255S1C / LG250S1C / LG245S1C

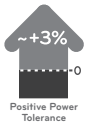
LG Electronics, Inc. (Korea Exchange: 06657.KS) is one of the globally leading companies and technology innovator for electronics, information and communication products. The LG Group currently employs more than 93,000 people worldwide in 120 companies. In fiscal year 2010 a turnover of 48.2 billion USD has been achieved.

LG is one of the world's largest manufacturers of mobile phones, flat screen TVs, air conditioners, washing machines and refrigerators. As a future-oriented company, LG relies on the technology of renewable energies and is expanding it. The range of products comprises high quality solar cells, solar modules and solar solutions which are being manufactured in LG's leading production site Korea.

Mono X™ are monocrystalline solar modules with very high power.

LG Solar Cell Technology

With many years of devoted and thorough research and development LG has successfully developed a solar cell that is cutting edge and reliable.



Positive Power Tolerance

LG delivers solar modules with a rigorous quality assurance and a positive nominal power tolerance starting at 0%.

Outstanding Durability

LG solar modules withstand a maximum load of 5400 Pa, are light in weight and built with glass that is slim and durable.

Special Frame Design

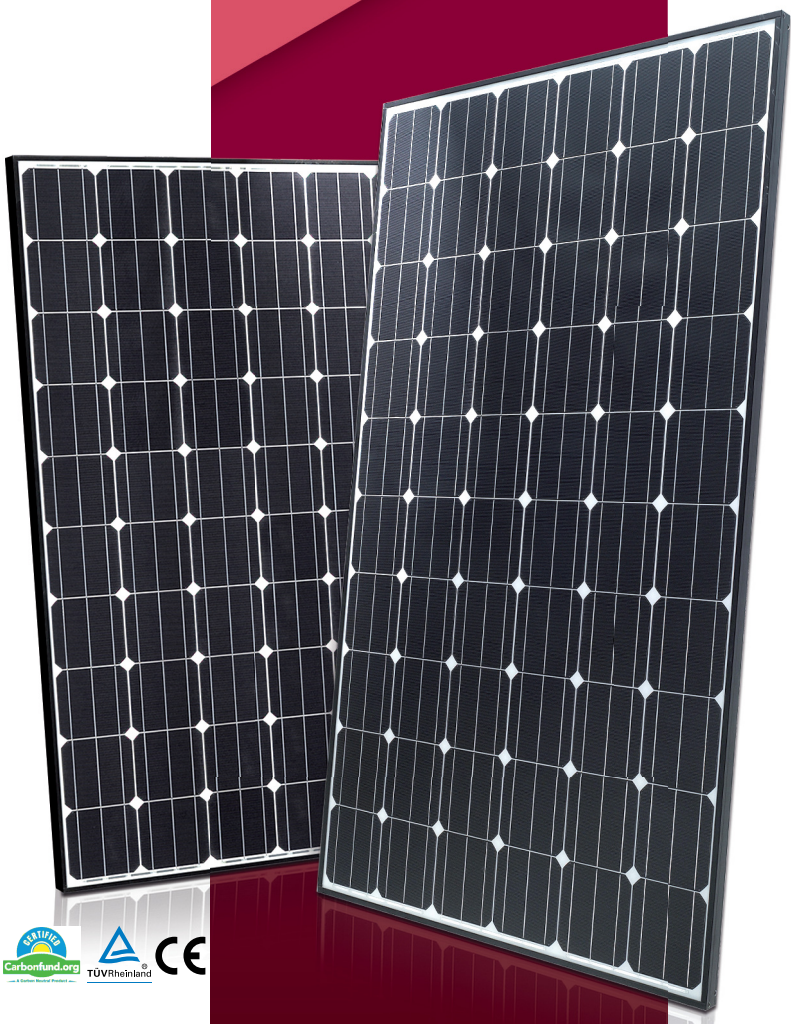
LG solar modules are specially designed and drain water in all slopes and angles.

Warranty

LG offers a product warranty of 10 years that comprises of a power warranty of 90% up to 12 years and 80% up to 25 years.

Certified Laboratory

LG solar modules meet the requested specifications for solar modules. The test laboratory is certified by TÜV Rheinland and Underwriters Laboratories.



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Mechanical Properties

Solar Cells	6 × 10
Solar Cells, Manufacturer	LG
Solar Cells, Type	monocrystalline
Solar Cells, Dimensions	156 × 156 mm²
Solar Cells, Busbars	3
Front Cover	Glass, 3.2 mm
Frame	Aluminum, anodized
Dimensions (L × W × H)	1632 × 986 × 42 (mm)
Maximum Load	5400 Pa
Weight	19 kg
Connector, Type	Yukita, IP 67
Junction Box	Yukita with 3 Bypass Diodes, IP65
Length of Cables	2 × 1000 mm

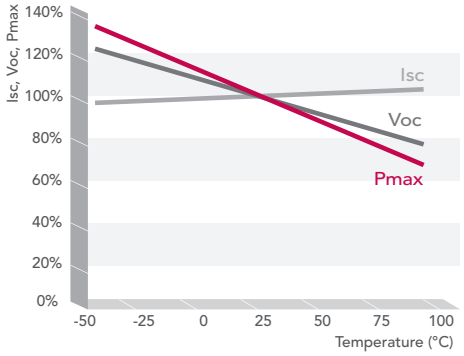
Certifications & Warranty

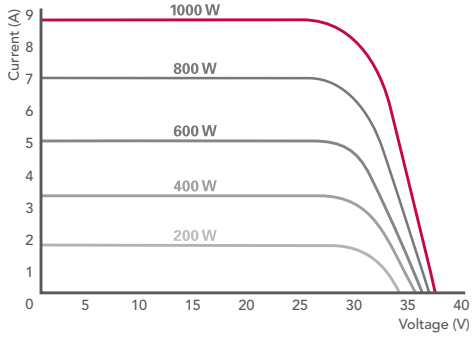
Certifications	IEC 61215, IEC 61730-1/-2 IEC 62716/Draft C, ISO 9001
Product Warranty	10 years
Power Warranty of Pmax	12 years: 90%, 25 years: 80%

Temperature Coefficients

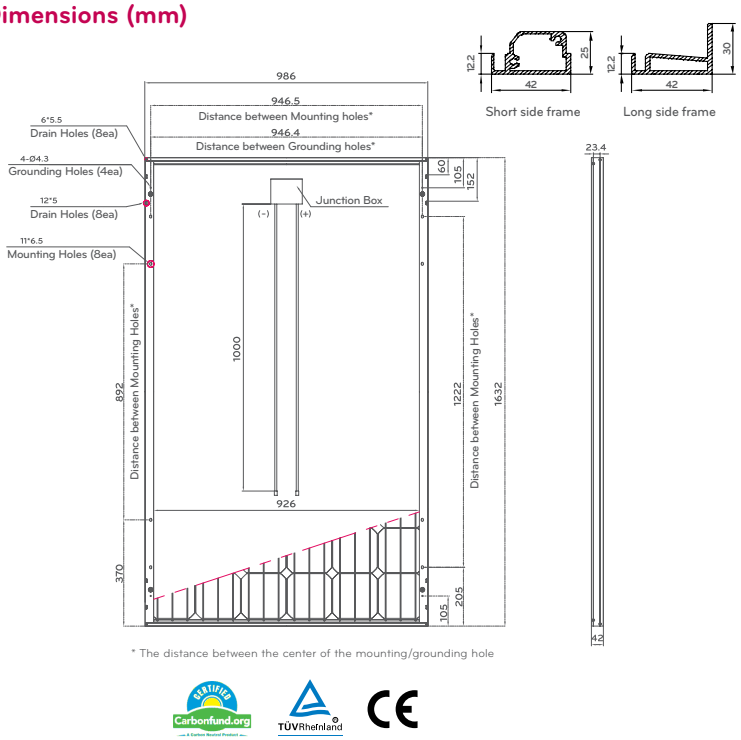
NOCT	43,7 ±2°C
Pmpp	-0,469%/K
Voc	-0,128 V/K, -0,338%/K
Isc	3,78 mA/K, 0,043%/K

Characteristic Curves





Dimensions (mm)



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

Electrical Properties (STC*)

	LG260S1C	LG255S1C	LG250S1C	LG245S1C
Maximum Power at STC (Pmax)	260	255	250	245
Power Tolerance	0 ~ +3%			
Maximum System Voltage	1000 V			
Nominal Series Fuse Current	15 A			
Operating Temperature	-40°C ~ +90°C			
MPP Voltage (Vmpp)	30,1	30,0	29,9	29,8
MPP Current (Impp)	8,64	8,50	8,37	8,23
Open Circuit Voltage (Voc)	37,3	37,2	37,1	37,0
Short Circuit Current (Isc)	8,94	8,85	8,76	8,67
Module Efficiency (%)	16,2	15,8	15,5	15,2

* STC (Standard Test Conditions): Irradiance 1000 W/m², Module Temperature 25°C, AM 1,5
Application Class: A (after IEC 61730), Safety Class: II
LG Electronics does not assume any warranty for the precision of the electric data.
Subject to change without notice.

Electrical Properties (NOCT*)

	LG260S1C	LG255S1C	LG250S1C	LG245S1C
Maximum Power (W)	189	186	182	178
Maximum Power Voltage (V)	27,11	27,01	26,91	26,72
Maximum Power Current (A)	6,98	6,87	6,77	6,66
Open Circuit Voltage (Voc)	34,61	34,51	34,41	34,22
Short Circuit Current (Isc)	7,22	7,15	7,08	7,01
Efficiency Reduction (from 1000 W/m² to 200 W/m²)	<4,5%			

* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

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