LG
Life's Good

LG Monocrystalline Solar Module

LG240M1C / LG235M1C / LG230M1C

With more than half a century of consumer electronics technology and 25 years of in-depth R&D, LG is pleased to introduce its first breakthrough photovoltaic module in North America. LG photovoltaic modules are perfect for general on-grid applications in residential, commercial and utility services. Built with reliable materials, a unique design and systematic quality assurance, LG is proud to provide its customers with superior product value and services.

LG Cell Technology

With 25 years of devoted and thorough research and development,
LG has successfully developed a solar cell that is cutting edge and reliable.

Certified Laboratory

LG has met the core standard specifications for solar modules and became the official test laboratory certified by TÜV Rheinland and Underwriters laboratories.

Unmatched Warranty & Services

LG offers an industry leading support policy that is comprised of a 10-year product warranty, 12-year 90 % power output warranty and 25-year 80 % power output warranty.

Positive Power Tolerance

LG delivers its products with the world's most rigorous product assurance –
a nominal power tolerance starting at 0 %.

Superior Durability

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

Unique Frame Design

LG photovoltaic modules are uniquely designed to drain liquid even on unparalleled slopes and angles.



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Mechanical Properties

Cells	6 x 10
Cell vendor	LG
Cell type	Monocrystalline
Cell dimensions	156 x 156 mm² / 6 x 6 in²
# of busbars	3
Dimensions (L x W x H)	1632 x 986 x 42 mm
	64.25 x 38.82 x 1.65 in
Maximum load	113 psf (5400 Pa)
Weight	19 kg / 41.89 lb
Connector type*	Tyco connector IP 67
Junction box	IP 65 with 3 bypass diodes
Length of cables	2 x 1000 mm / 2 x 39 in

* NEC 2008 compliant

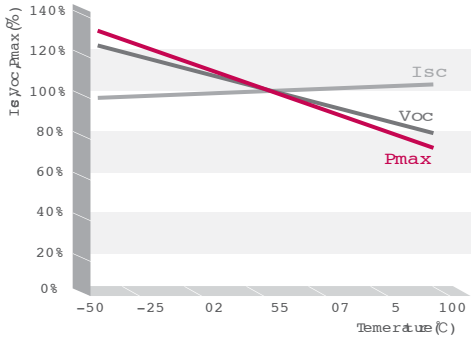
Certifications & Warranty

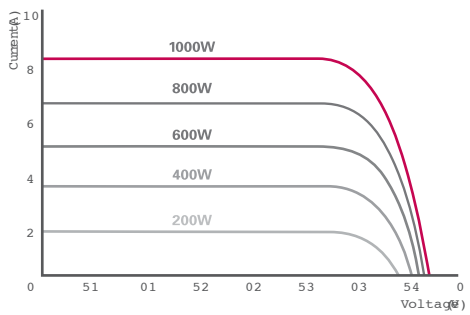
Certifications	IEC 61215 Ed.2, 61730, UL 1703
	CEC Listed
Product warranty	10 years
Output warranty of Pmin	12-year : 90 %, 25-year : 80 %

Temperature Coefficients

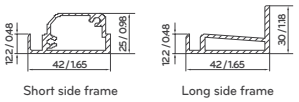
NOCT	43.8 ± 2°C
Pmpp	-0.493 %/K
Voc	-0.132 V/K, -0.355 %/K
Isc	0.046 %/K

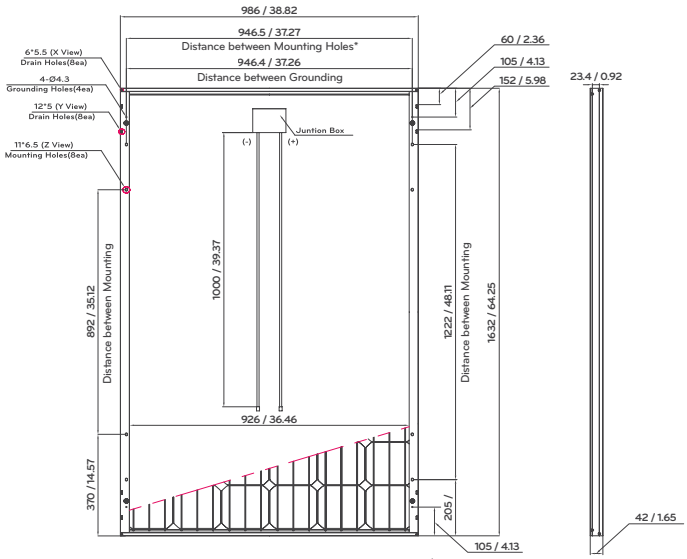
Characteristic Curves





Dimensions (mm/in)





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

Electrical Properties (STC*)

	LG240M1C	LG235M1C	LG230M1C
Maximum power at STC (Pmax)	240	235	230
MPP voltage (Vmpp)	29.7	29.6	29.5
MPP current (Impp)	8.1	7.94	7.81
Open circuit voltage (Voc)	36.9	36.8	36.6
Short circuit current (Isc)	8.58	8.49	8.37
Module efficiency (%)	14.9	14.6	14.3
Operating temperature	-40°C ~ + 90°C		
Maximum system voltage	600 V		
Maximum series fuse rating	20 A		
Power tolerance	0 ~ +3 %		

* STC(Standard Test Conditions) : 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.

Electrical Properties (NOCT*)

	LG240M1C	LG235M1C	LG230M1C
Maximum power (W)	175.6	172.0	168.3
Maximum power voltage (V)	26.77	26.68	26.59
Maximum power current (A)	6.58	6.44	6.34
Open circuit voltage (Voc)	34.12	34.03	33.85
Short circuit current (Isc)	6.93	6.86	6.76
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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