MonoX™

LG250S1C-G2

Mechanical Properties

Cells	6 x 10
Cell vendor	LG
Cell type	Monocrystalline
Cell dimensions	156 x 156 mm² / 6 x 6 in²
# of busbar	3
Dimensions (L x W x H)	1632 x 986 x 42 mm
	64.25 x 38.82 x 1.65 in
Maximum load (Pa)	5400 (113 psf)
Weight	18.4 kg / 41.89 lb
Connector type	MC4 connector IP67
Junction box	IP 65 with 3 bypass diodes
Length of cables	2 x 1000 mm / 2 x 39.37 in

Certifications and Warranty

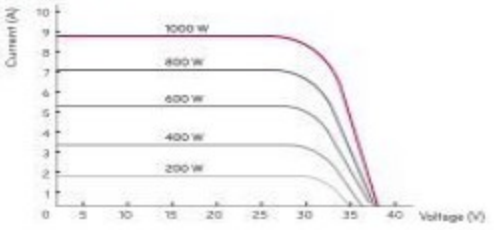
Certifications	IEC 61215, IEC 61730-1/-2,
	IEC 62716/Draft C, IEC 61701,
	UL 1703, ISO 9001
Product limited warranty	10 years
Output limited warranty	Linear warranty*

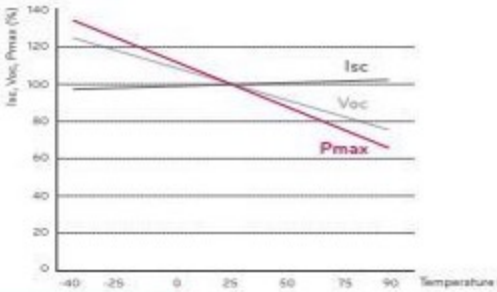
* 1) 1st year: 97%, 2) After 2nd year: 0.7% annual degradation, 3) 80.2% for 25 years

Temperature Coefficients

NOCT	46.0 ± 2 °C
Pmpp	-0.420 %/K
Voc	-0.306 %/K
Isc	0.042 %/K

Characteristic Curves





Electrical Properties (STC*)

	LG250S1C-G2
Maximum power at STC (Pmax)	250
MPP voltage (Vmpp)	29.9
MPP current (Impp)	8.37
Open circuit voltage (Voc)	37.1
Short circuit current (Isc)	8.76
Module efficiency (%)	15.5
Operating temperature (°C)	-40 ~ +90
Maximum system voltage (V)	1000
Maximum series fuse rating (A)	15
Power tolerance (%)	0 ~ +3

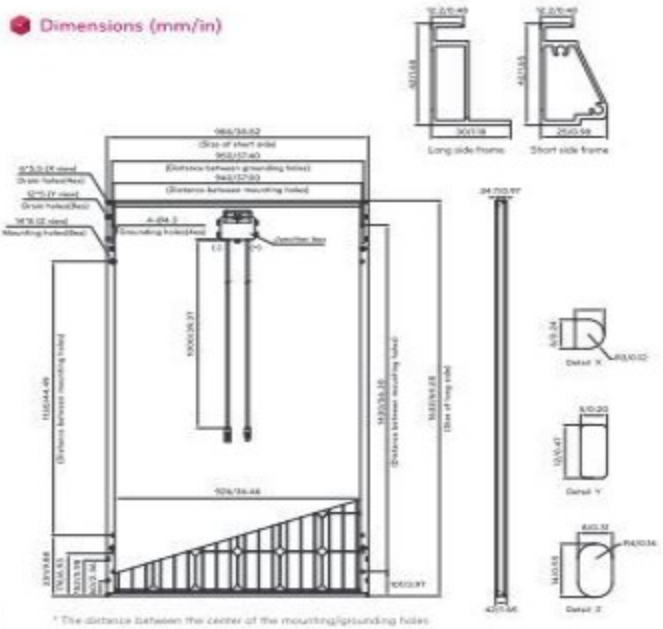
* Power at STC (Standard Test Condition): Irradiance 1000 W/m², module temperature 25 °C, AM 1.5
** The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NOCT*)

	LG250S1C-G2
Maximum power (W)	183.52
Maximum power voltage (V)	27.16
Maximum power current (A)	6.76
Open circuit voltage (Voc)	34.36
Short circuit current (Isc)	7.07
Efficiency reduction (From 1000 W/m² to 200 W/m²)	< 4.5 %

* Power at 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

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01/01/2012