

MonoX[®] Black

LG270S1K-B3 / LG265S1K-B3

60 cell

MonoX[®] series are LG Electronics' high-quality monocrystalline module brands. The quality is the result of our strong commitment to developing a module to improve benefits for customers. Features of MonoX[®] series include higher efficiency and durability, convenient installation, and aesthetic exterior.



KM 564573 BS EN 61215
Photovoltaic Modules



Light Weight

Light and Robust

With a weight of just 16.8 kg, LG modules are proven to demonstrate outstanding durability against external pressure up to 5400 Pa.



Convenient Installation

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LG modules are carefully designed to benefit installers by allowing quick and easy installations throughout the carrying, grounding, and connecting stages of modules.



EL Test

100% EL Test Completed

All LG modules pass Electroluminescence inspection. This EL inspection detects cracks and other imperfections unseen by the naked eye.



Current Sorting

The Extra 2% Power

To minimize losses due to mismatch, LG produces 3 groups of solar modules which are sorted by its current class. This enables MonoX[®] to maximize the system's output by around 2% based off the theoretical calculation.



Linear Warranty

Reliable Warranties

LG stands by its products with the strength of a global corporation and sterling warranty policies. LG offers a 10 year product limited warranty and a 25 year limited linear output warranty.



Positive Power Tolerance

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LG provides rigorous quality testing to solar modules to assure customers of the stated power outputs of all modules, with a positive nominal tolerance starting at 0%.

About LG Electronics

LG Electronics is a global big player who has been committed to expanding its capacity, based on solar energy business as its future growth engine. We embarked on a solar energy source research program in 1985, supported by LG Group's rich experience in semi-conductor, LCD, chemistry, and materials industry. We successfully released the first MonoX[®] series on the market, in 2010, which were exported to 32 countries in 2 years, thereafter. In 2013, MonoX[®] NeON won "Intersolar Award", which proved it's the leader of innovation in the industry.

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Mechanical Properties

Cells	6 x 10
Cell vendor	LG
Cell type	Monocrystalline
Cell dimensions	156.5 x 156.5 mm / 6 x 6 in
# of busbar	3
Dimensions (L x W x H)	1640 x 1000 x 35 mm 64.57 x 39.37 x 1.38 in
Static snow load	5400 Pa / 113 psf
Static wind load	2400 Pa / 50 psf
Weight	16.8 ± 0.5 kg / 36.96 ± 1.1 lb
Connector type	MC4 connector IP 67
Junction box	IP 67 with 3 bypass diodes
Length of cables	1000 mm / 39.37 in
Glass	High transmission tempered glass
Frame	Anodized aluminum

Certifications and Warranty

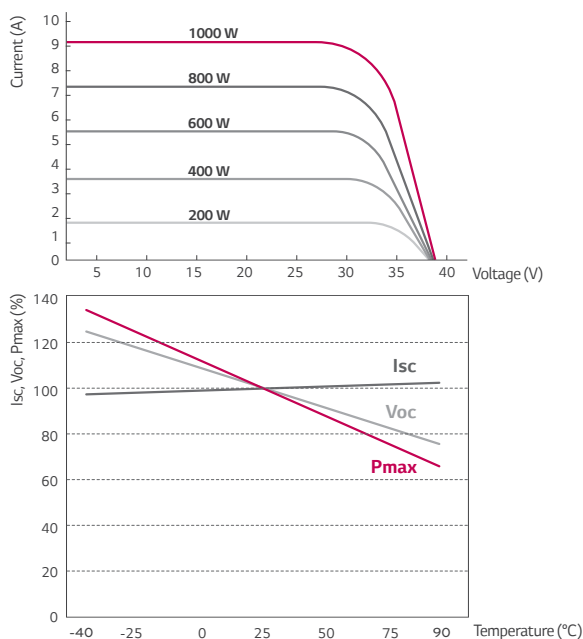
Certifications	IEC 61215, IEC 61730-1/-2, IEC 61701, Salt Mist Corrosion Test (IEC61701), DLG-Fokus Test "Ammonia Resistance", UL 1703, ISO 9001
Product warranty	10 years
Output warranty of P _{max} (measurement Tolerance ± 3%)	Linear warranty*

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

Temperature Coefficients

NOCT	47.0 ± 2 °C
P _{mpp}	-0.44 %/°C
V _{oc}	-0.31 %/°C
I _{sc}	0.05%/°C

Characteristic Curves



Electrical Properties (STC*)

	270 W	265 W
MPP voltage (V _{mpp})	31.7	31.5
MPP current (I _{mpp})	8.52	8.42
Open circuit voltage (V _{oc})	38.6	38.4
Short circuit current (I _{sc})	9.12	9.03
Module efficiency (%)	16.5	16.2
Operating temperature (°C)	-40 ~ +90	
Maximum system voltage (V)	1000 (IEC), 600 (UL)	
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

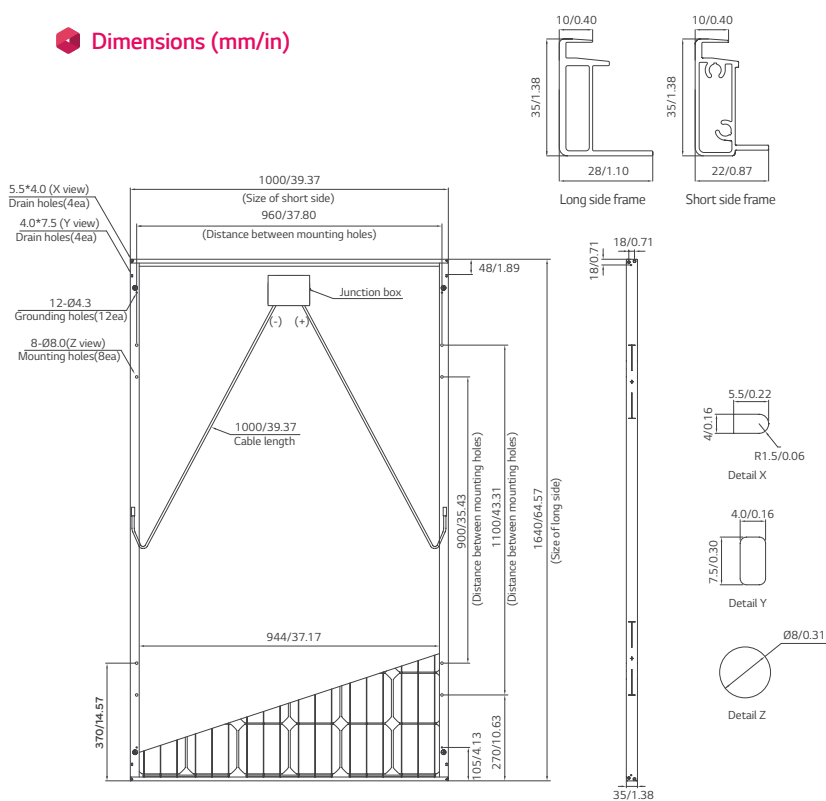
* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NOCT*)

	270 W	265 W
Maximum power (P _{mpp})	196	192
MPP voltage (V _{mpp})	28.8	28.6
MPP current (I _{mpp})	6.80	6.72
Open circuit voltage (V _{oc})	35.5	35.3
Short circuit current (I _{sc})	7.37	7.30
Efficiency reduction (from 1000 W/m ² to 200 W/m ²)	< 4.5%	

* 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

