LG
Life's Good

With
it's a

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Certificate of Appropriateness
Date: 09/29/14

MonoX™ Black

LG265S1K-A3

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.

APPROVED PRODUCT
KM 564573 BS EN 61215
Photovoltaic Modules

LIGHT AND ROBUST

16.8kg
Light Weight

With a weight of just 16.8 kg (36.96 lb), LG modules are proven to demonstrate outstanding durability against external pressure up to 5400 Pa.

CONVENIENT INSTALLATION

Time-saving
Convenient Installation

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

100% EL TEST COMPLETED

EL Test

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

THE EXTRA 2% POWER

2%
Current Sorting

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.

RELIABLE WARRANTIES

25yrs
Linear Warranty

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

~+3%
0
Positive Power Tolerance

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 multinational corporation committed to expanding its capacity with solar energy business as its future growth engine. Our a solar energy source research program was launched in 1985, backed by LG Group's rich experience in semi-conductors, LCD, chemistry and electronic materials industry. We successfully released the first MonoX™ series to the market in 2010 which exported to 32 countries in 2 years. In 2013, MonoX™ NeON won "Intersolar Award", which proved its leading innovation in the industry.

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MECHANICAL PROPERTIES

Cells	6 x 10
Cell vendor	LG
Cell type	Monocrystalline
Cell dimensions	156 x 156 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	2 x 1000 mm / 2 x 39.37 in
Glass	High transmission tempered glass
Frame	Anodized aluminum

CERTIFICATIONS AND WARRANTY

Certifications (In Progress)	IEC 61215, IEC 61730-1/-2, UL 1703, ISO 9001
Product warranty	10 years
Output warranty of Pmax (measurement Tolerance ± 3%)	Linear warranty*

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

TEMPERATURE COEFFICIENTS

NOCT	47.0 ± 2 °C
Pmpp	-0.44 %/°C
Voc	-0.31 %/°C
Isc	0.05 %/°C

CHARACTERISTIC CURVES

ELECTRICAL PROPERTIES (STC*)

Maximum power at STC (Pmpp)	
MPP voltage (Vmpp)	31.5
MPP current (Impp)	8.42
Open circuit voltage (Voc)	38.4
Short circuit current (Isc)	9.03
Module efficiency (%)	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 (STC*)

	LG265S1K-A3
Maximum power at STC (Pmpp)	192
MPP voltage (Vmpp)	28.6
MPP current (Impp)	6.72
Open circuit voltage (Voc)	35.3
Short circuit current (Isc)	7.30
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

DIMENSIONS (MM/IN)

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

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