Inspections Division
Date: 12/05/16

LG
Life's Good

Innovation for
a Better Life™

LG Mono X® 72cell

LG335S2W-G4

72 cell

LG Mono X® Plus is LG Electronics' high-quality monocrystalline module. The quality is the result of our strong commitment to developing a module to improve benefits for customers. Features of Mono X® Plus include durability, convenient installation, and aesthetic exterior.

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Enhanced Performance Warranty

LG Mono X® 72cell comes with the enhanced performance limited warranty. The initial degradation has been improved from -3% to -2%, and the annual degradation has also changed from -0.7%/yr to -0.6%/yr.

Reduced LID (LiLY Technology)

LG Mono X® 72cell has improved the initial degradation by applying LG's new LiLY(LID-improvement for Lifetime Yield) Technology, which controls formation of Boron-Oxygen pair, the key factor of LID.

Improved Product Warranty

In addition to the enhanced performance limited warranty, LG has extended the limited product warranty of LG Mono X® 72cell for additional 2 years with its newly reinforced frame design.

Light and Convenient

LG Mono X® 72cell is carefully designed to benefit installers by allowing quick installation with a weight of just 44.75 lb. and better grips.

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.

About LG Electronics

LG Electronics is a global 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 first Mono X® series to the market in 2010, which were exported to 32 countries in the following 2 years, thereafter. In 2013, NeON™ (previously known as Mono X® NeON) & 2015 NeON2 with CELLO technology won "Intersolar Award", which proved LG is the leader of innovation in the industry.

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Mechanical Properties

Cells	6 x 12
Cell Vendor	LG
Cell Type	Monocrystalline / P-type
Cell Dimensions	156.75 x 156.75 mm / 6 inches
# of Busbar	3
Dimensions (L x W x H)	1960 x 1000 x 46 mm
	77.17 x 39.37 x 1.81 inch
Front Load	60 psf
Rear Load	60 psf
Weight	20.3 ± 0.5 kg / 44.75 ± 1.1 lbs
Connector Type	MC4
Junction Box	IP67 with 3 Bypass Diodes
Length of Cables	1200mm x 2 ea / 47.24 x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminum

Certifications and Warranty

Certifications	UL 1703
	ISO 9001
	IEC 62716 (Ammonia Corrosion Test)*
	IEC 61701 (Salt Mist Corrosion Test)*
Module Fire Performance (USA)	Type 2 (UL1703)
Fire Rating (for CANADA)	Class C (ULC/ORD C1703)
Product Warranty	12 years
Output Warranty of Pmax	Linear warranty**

* in progress
** 1) 1st year : 98%, 2) after 2nd year : 0.6% annual degradation, 3)83.6% for 25 years

Temperature Characteristics

NOCT	46 ± 3 °C
Pmax	-0.42 %/°C
Voc	-0.30 %/°C
Isc	0.03 %/°C

Characteristic Curves

Electrical Properties (STC *)

Module Type	335 W
MPP Voltage (Vmpp)	37.5
MPP Current (Impp)	8.94
Open Circuit Voltage (Voc)	46.2
Short Circuit Current (Isc)	9.48
Module Efficiency (%)	17.1
Operating Temperature (°C)	-40 ~ +90
Maximum System Voltage (V)	1000
Maximum Series Fuse Rating (A)	20A
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*)

Module Type	335 W
Maximum Power (Pmax)	248
MPP Voltage (Vmpp)	34.4
MPP Current (Impp)	7.20
Open Circuit Voltage (Voc)	43.1
Short Circuit Current (Isc)	7.63

* 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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Product specifications are subject to change without notice.
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