Inspections Division
Date: 12/29/16

LG Mono X™ NeON 72 Cell

LG365N2W-B3 / LG360N2W-B3

72 Cell

Introducing NeON module series, which uses highly efficient n-type materials, an elaborate process control adopting a semiconductor processing solution and a double-sided structure. Our R&D concentrates on developing a product that is not only efficient, but strives to increase practical value for customers.

Intertek

Key Features

N-Type Material

Mono X™ NeON uses n-type cells, boasting higher mobility of electric charge, resulting in generation of high efficiency.

High Power Output

Compared with previous models, the Mono X™ NeON has been designed to significantly enhance its output efficiency making it efficient even in limited space.

Enhanced Performance Warranty

Mono X™ NeON has an enhanced performance warranty. The annual degradation has fallen from -0.7%/yr to -0.6%/yr. Even after 25 years, the cell guarantees 2.4%p more output than the previous NeON™ modules.

Double-Sided Cell Structure

The rear of the cell used in Mono X™ NeON is designed to contribute to generation of additional power; the light beam reflected from the rear of the module is reabsorbed to generate a great amount of additional power.

Better Performance on a Sunny Day

Mono X™ NeON now performs better on a sunny days thanks to its improved temperature coefficient.

Near Zero LID(Light Induced Degradation)

The n-type cells used in Mono X™ NeON have almost no boron, which may cause the initial efficiency to drop, leading to less LID.

About LG Electronics

LG Electronics is a global big player, committed to expanding its operations in the solar market. The compnay first embarked on a solar energy source research program in 1985, supported by LG Group's vast experience in the semi-conductor, LCD, Chemistry, and materials industries. In 2010, LG Solar successfully released its first Mono X® series to the market, which is now available in 32 countries. The NeON™(previous, Mono X® NeON) and The NeON™ 2 won the "Intersolar Award" in 2013 and 2015, which demonstrates LG Solar's lead, innovation and commitment to the industry.

LG Life's Good

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Mechanical Properties

Cells	6 x 12
Cell vendor	LG
Cell type	Monocrystalline / N -type
Cell dimensions	156.75 x 156.75 mm / 6 x 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	MC 4 Compatible
Junction box	IP67 with 3 bypass diodes
Length of cables	2 x 1200mm / 2 x 47.24inch
Glass	High transmission tempered glass
Frame	Anodized aluminum

Certifications and Warranty

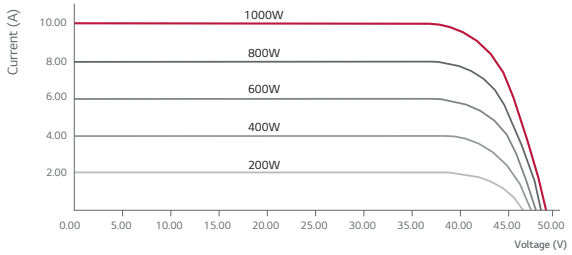
Certifications	UL 1703,
	ISO 9001, IEC 62716 (Ammonia Test)
	IEC 61701 (Salt mist corrosion test)
Module Fire Performance (USA)	Type 2 (UL1703)
Fire Rating (for CANADA)	Class C (ULC/ORD C1703)
Product warranty	12 years NEW
Output warranty of Pmax	Linear warranty* NEW

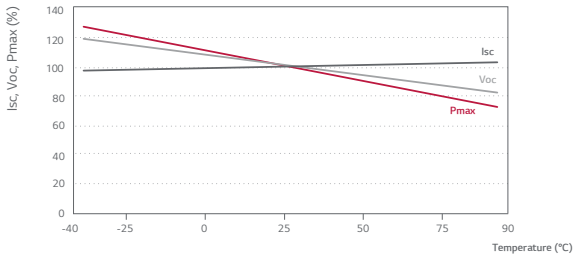
* 1) 1st year: 98%, 2) After 2nd year: 0.6%p annual degradation, 3) 83.6% for 25 years

Temperature Coefficients

NOCT	46 ± 3 °C
Temperature Coefficient of Pmax	-0.39 %/°C
Temperature Coefficient of Voc	-0.28 %/°C
Temperature Coefficient of Isc	0.03 %/°C

Characteristic Curves





Electrical Properties (STC*)

Module Type	365W	360W
MPP voltage (Vmpp)	38.6	38.4
MPP current (Impp)	9.46	9.39
Open circuit voltage (Voc)	48.4	48.3
Short circuit current (Isc)	9.89	9.84
Module efficiency (%)	18.6	18.4
Operating temperature (°C)	-40 ~ +90	
Maximum system voltage (V)	1000	
Maximum series fuse rating (A)	20	
Power tolerance (%)	0 ~ +3	

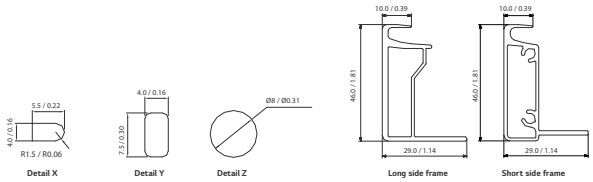
* STC (Standard Test Condition): Irradiance 1000 W/m², modu le temperature 25 °C, AM 1.5
* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.
* The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -2.0%

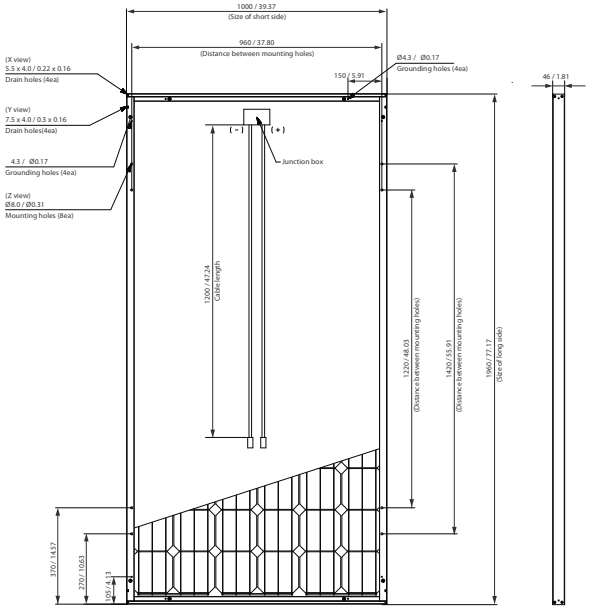
Electrical Properties (NOCT*)

Module Type	365W	360W
Maximum power (Pmax)	267	263
MPP voltage (Vmpp)	35.3	35.2
MPP current (Impp)	7.55	7.49
Open circuit voltage (Voc)	44.9	44.8
Short circuit current (Isc)	7.98	7.93

* 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.

LG Life's Good

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Product specifications are subject to change without notice.
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Innovation for a Better Life