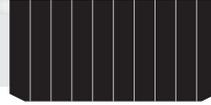


LG NeON[®] 2

LG440N2W-E6 | LG445N2W-E6 | LG450N2W-E6 Preliminary



144

440W | 445W | 450W

The LG NeON[®] 2 is LG's best selling solar module, and is one of the most powerful and versatile modules on the market today. Featuring LG's Cello Technology, the LG NeON[®] 2 increases power output.



Features



Enhanced Performance Warranty

LG NeON[®] 2 has an enhanced performance warranty. After 25 years, LG NeON[®] 2 is guaranteed at least 90.6% of initial performance.



25-Year Limited Product Warranty

The NeON[®] 2 is covered by a 25-year limited product warranty.



BOS (Balance Of System) Saving

LG NeON[®] 2 can reduce the total number of strings due to its high module efficiency resulting in a more cost effective and efficient solar power system.



Solid Performance on Hot Days

LG NeON[®] 2 performs well on hot days due to its low temperature coefficient.

When you go solar, ask for the brand you can trust: LG Solar

About LG Electronics USA, Inc.

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. The company 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 MonoX[®] series to the market, which is now available in 32 countries. The NeON[®] (previous MonoX[®] NeON), NeON[®]2, NeON[®]2 Bifacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.



LG440N2W-E6 | LG445N2W-E6 | LG450N2W-E6

General Data

Cell Properties (Material/Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	144 Cells (6 x 24)
Number of Busbars	9EA
Module Dimensions (L x W x H)	2,110mm x 1,042mm x 40mm
Weight	23kg
Glass (Material)	Tempered Glass with AR Coating
Backsheet (Color)	White
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)*	1,400mm x 2EA
Connector (Type/Maker)	MC 4 / MC

*Including connector

Certifications and Warranty

Certifications**	IEC 61215-1/-1-1/2 : 2016, IEC 61730-1/2: 2016, UL 61730
	ISO 9001, ISO 14001, ISO 50001
	OHSAS 18001
Salt Mist Corrosion Test	IEC 61701 : 2012 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Module Fire Performance	Type 1 (UL 61730)
Fire Rating	Class C (UL 790, ULC / ORD C 1703)
Solar Module Product Warranty	25 Year Limited
Solar Module Output Warranty	Linear Warranty*

*Improved: 1st year 98.5%, from 2-24th year: -0.33%/year down, 90.6% at year 25

**In Progress

Temperature Characteristics

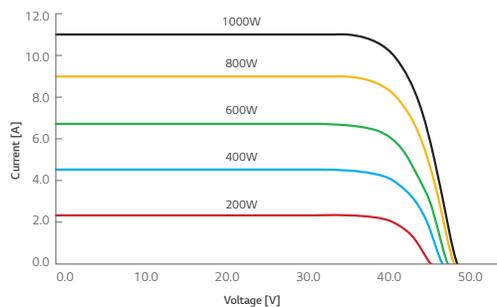
NMOT*	[°C]	44 ± 3
Pmax	[%/°C]	-0.34
Voc	[%/°C]	-0.27
Isc	[%/°C]	0.04

*NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², Ambient temperature 20°C, Wind speed 1 m/s, Spectrum AM 1.5

Electrical Properties (NMOT)

Model	LG440N2W-E6	LG445N2W-E6	LG450N2W-E6	
Maximum Power (Pmax)	[W]	331	334	338
MPP Voltage (Vmpp)	[V]	38.1	38.4	38.6
MPP Current (Impp)	[A]	8.67	8.72	8.77
Open Circuit Voltage (Voc)	[V]	45.9	46.0	46.2
Short Circuit Current (Isc)	[A]	9.18	9.21	9.24

I-V Curves



Electrical Properties (STC*)

Model	LG440N2W-E6	LG445N2W-E6	LG450N2W-E6	
Maximum Power (Pmax)	[W]	440	445	450
MPP Voltage (Vmpp)	[V]	40.6	40.8	41.1
MPP Current (Impp)	[A]	10.85	10.91	10.96
Open Circuit Voltage (Voc, ± 5%)	[V]	48.8	48.9	49.0
Short Circuit Current (Isc, ± 5%)	[A]	11.40	11.44	11.47
Module Efficiency	[%]	20.0	20.2	20.5
Power Tolerance	[%]	0 ~ +3		

*STC (Standard Test Condition): Irradiance 1000 W/m², Cell temperature 25°C, AM 1.5
Measure Tolerance: ± 3%

Operating Conditions

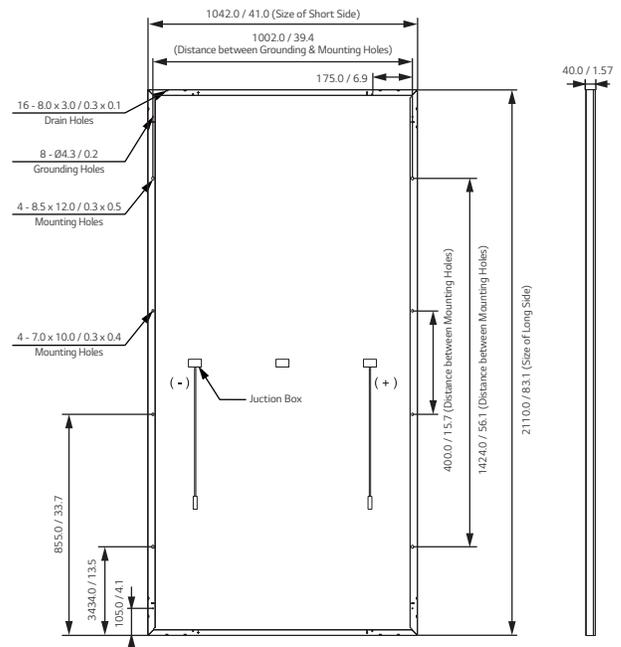
Operating Temperature	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000 (IEC)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load* (Front)	[Pa/psf]	5,400/113
Mechanical Test Load* (Rear)	[Pa/psf]	3,000/63

*Based on IEC 61215-2 : 2016 (Test Load = Design Load x Safety Factor (1.5))

Packaging Configuration

Number of Modules per Pallet	[EA]	25
Number of Modules per 40' HQ Container	[EA]	550
Number of Modules per 53' HQ Container	[EA]	750
Packaging Box Dimensions (L x W x H)	[mm]	2,160 x 1,120 x 1,213
Packaging Box Dimensions (L x W x H)	[in]	85 x 44.1 x 47.8
Packaging Box Gross Weight	[kg]	593
Packaging Box Gross Weight	[lb]	1,307

Dimensions (mm/inch)



LG Electronics USA, Inc.
Solar Business Division
2000 Millbrook Drive
Lincolnshire, IL 60069
www.lg-solar.com

Product specifications are subject to change without notice.
LG440-450N2W-E6.pdf
121720

© 2020 LG Electronics USA, Inc. All rights reserved.