

# LG NeON<sup>®</sup>H

The LG NeON<sup>®</sup>H is one of the most powerful and versatile modules on the market today. The LG NeON<sup>®</sup>H is equipped with N-type cells and half-cut technology to increase power and efficiency. The LG NeON<sup>®</sup>H includes a 25-year product and 90.6% performance warranty for higher performance and reliability.

**465W | 460W | 455W**  
**450W | 445W | 440W**

## FEATURES

**90.6%**  
in year 25

### Enhanced Performance Warranty

LG NeON<sup>®</sup>H comes with an enhanced performance warranty. After 25 years of use, the LG NeON<sup>®</sup>H is guaranteed to provide at least 90.6% of initial performance.

**25**  
YEARS  
WARRANTY

### Industry-Leading Product Warranty

LG offers an industry-leading 25 year product warranty on the NeON<sup>®</sup>H.



### Reliable Quality

LG NeON<sup>®</sup>H offers reliable and proven quality through rigorous testing\*.

\* LG is subject to rigorous quality verification through PVEL PQP test. The PVEL PQP includes test sequences examining both the reliability and performance characteristics of PV modules.



144<sub>cell</sub>

### About LG Electronics

LG is transforming today's solar landscape, offering high-efficiency solar panels for customers who demand high performance, reliability and consistently strong energy yield from a brand they can trust. LG's modules feature high power outputs, outstanding durability, appealing aesthetics and high-efficiency technology.



## Electrical Properties (STC\*)

Model		LG465N2W-E6	LG460N2W-E6	LG455N2W-E6	LG450N2W-E6	LG445N2W-E6	LG440N2W-E6
Maximum Power (Pmax)	[W]	465	460	455	450	445	445
MPP Voltage (Vmpp)	[V]	42.7	42.4	42.1	41.8	41.5	41.5
MPP Current (Impp)	[A]	10.89	10.86	10.83	10.79	10.74	10.74
Open Circuit Voltage (Voc, ± 5%)	[V]	50.5	50.2	49.9	49.7	49.4	49.4
Short Circuit Current (Isc, ± 5%)	[A]	11.51	11.45	11.39	11.34	11.27	11.27
Module Efficiency	[%]	21.1	20.9	20.7	20.5	20.2	20.2
Power Tolerance	[%]	0 ~ +3					

\* STC (Standard Test Condition) : Irradiance 1,000W/m<sup>2</sup>, Cell temperature 25°C, AM 1.5, Measure Tolerance of Pmax : ± 3 %

## Electrical Properties (NMOT)

Model		LG465N2W-E6	LG460N2W-E6	LG455N2W-E6	LG450N2W-E6	LG445N2W-E6	LG440N2W-E6
Maximum Power (Pmax)	[W]	351	347	344	341	336	332
MPP Voltage (Vmpp)	[V]	40.20	39.90	39.60	39.40	39.10	38.80
MPP Current (Impp)	[A]	8.72	8.70	8.68	8.64	8.60	8.57
Open Circuit Voltage (Voc)	[V]	47.70	47.40	47.10	46.90	46.60	46.30
Short Circuit Current (Isc)	[A]	9.27	9.22	9.17	9.13	9.08	9.02

## General Data

Cell Properties (Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	144 Cells (6 x 24)
Number of Busbars	9 EA
Module Dimensions (L x W x H)	2,110 x 1,042 x 40 mm
Weight	22 kg
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)	1,400 mm x 2 EA
Connector (Type / Maker)	MC4 / Stäubli

## Certifications and Warranty

Certifications	IEC 61215-1 / -1-1 / 2:2016, IEC 61730-1 / 2:2016, UL 61730-1:2017, UL 61730-2:2017
	ISO 9001, ISO 14001
	ISO 45001
Salt Mist Corrosion Test	IEC 61701 : 2011 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Module Fire Performance	Type 1 (UL 61730)
Fire Rating	Class C (UL 790)
Solar Module Product Warranty	25 Years
Solar Module Output Warranty	Linear Warranty*

\* 1) First years : 98.5%, 2) After 1st year : -0.33%/year, 3) 90.6% for 25 years

## Operating Conditions

Operating Temperature	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000(IEC) / 1,500(UL)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load* (Front)	[Pa]	5,400
Mechanical Test Load* (Rear)	[Pa]	3,000

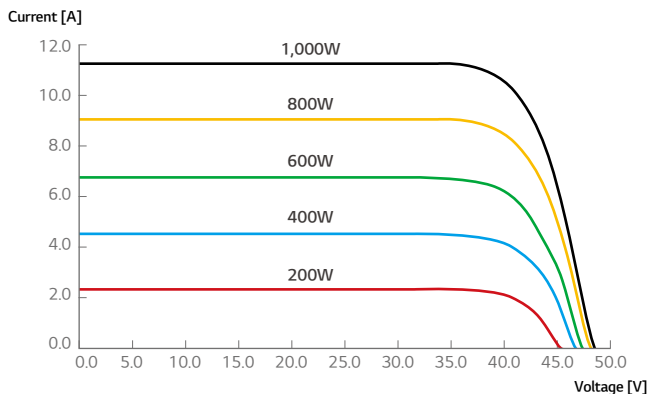
\* Based on IEC 61215-2 : 2016 (Test Load = Design Load x Safety Factor(1.5))

## Temperature Characteristics

NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.33
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.04

\* NMOT (Nominal Module Operating Temperature)  
: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1m/s, Spectrum AM 1.5

## I-V Curves



## Packaging Configuration

Number of Modules Per Pallet	[EA]	25
Number of Modules Per 40ft HQ Container	[EA]	500
Packaging Box Dimensions (L x W x H)	[mm]	2,160 x 1,120 x 1,213
Packaging Box Gross Weight	[kg]	588

## Dimensions (mm/inch)

