

# 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.

**390W | 385W**  
**380W | 375W | 370W**

## 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.



### Industry-Leading Product Warranty

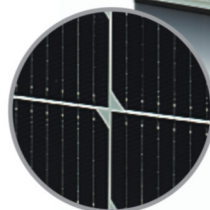
LG offers an industry-leading 25 year product warranty on the NeON<sup>®</sup>H.



### 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.



120<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		LG390N1C-E6	LG385N1C-E6	LG380N1C-E6	LG375N1C-E6	LG370N1C-E6
Maximum Power (P <sub>max</sub> )	[W]	390	385	380	375	370
MPP Voltage (V <sub>mpp</sub> )	[V]	35.8	35.5	35.1	34.8	34.4
MPP Current (I <sub>mpp</sub> )	[A]	10.92	10.88	10.85	10.80	10.76
Open Circuit Voltage (V <sub>oc</sub> , ± 5%)	[V]	42.4	42.0	41.7	41.3	40.9
Short Circuit Current (I <sub>sc</sub> , ± 5%)	[A]	11.49	11.44	11.39	11.35	11.30
Module Efficiency	[%]	21.2	20.9	20.6	20.4	20.1
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 P<sub>max</sub> : ±3%

## Electrical Properties (NMOT)

Model		LG390N1C-E6	LG385N1C-E6	LG380N1C-E6	LG375N1C-E6	LG370N1C-E6
Maximum Power (P <sub>max</sub> )	[W]	294	291	287	283	279
MPP Voltage (V <sub>mpp</sub> )	[V]	33.6	33.4	33.0	32.7	32.4
MPP Current (I <sub>mpp</sub> )	[A]	8.75	8.72	8.69	8.65	8.62
Open Circuit Voltage (V <sub>oc</sub> )	[V]	39.9	39.5	39.2	38.8	38.5
Short Circuit Current (I <sub>sc</sub> )	[A]	9.25	9.21	9.17	9.14	9.10

## General Data

Cell Properties (Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	120 Cells (6 x 20)
Number of Busbars	9 EA
Module Dimensions (L x W x H)	1,768 x 1,042 x 40 mm
Weight	18.5 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)(Included Connector)	1,200 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
	OHSAS 18001
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) / 1,000 (UL)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load* (Front)	[Pa]	5,400
Mechanical Test Load* (Rear)	[Pa]	4,000

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

※ Mechanical Test Loads 6,000 Pa / 5,400 Pa based on IEC 61215 : 2005

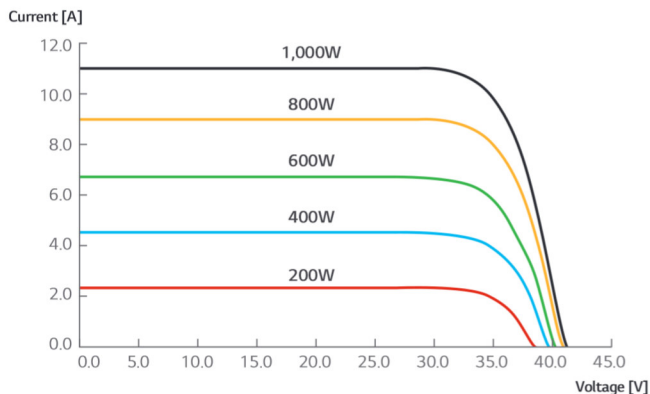
## Temperature Characteristics

NMOT*	[°C]	42 ± 3
P <sub>max</sub>	[%/°C]	-0.33
V <sub>oc</sub>	[%/°C]	-0.26
I <sub>sc</sub>	[%/°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



## Dimensions (mm/inch)

