

# LG NeON<sup>®</sup>H<sup>+</sup>

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

**420W | 415W**  
**410W | 405W**

## FEATURES

**90.6%**  
in year 25

### Enhanced Performance Warranty

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



### Industry-Leading Product Warranty

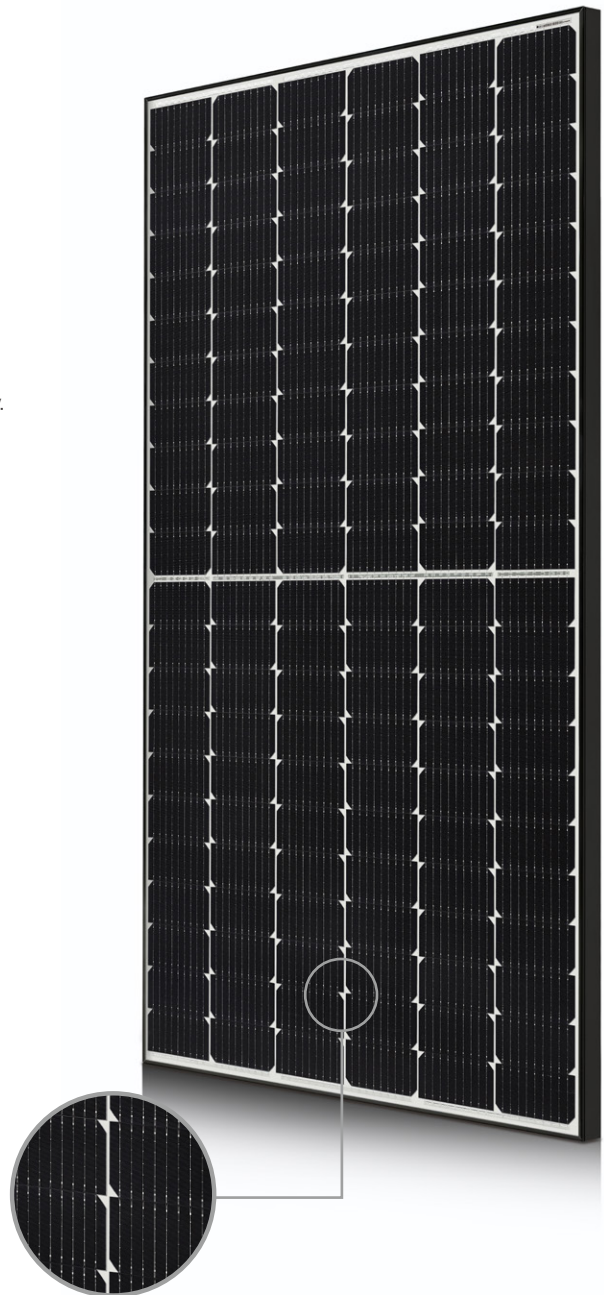
LG offers an industry-leading 25 year product warranty on the NeON<sup>®</sup>H<sup>+</sup>.



### Reliable Quality

LG NeON<sup>®</sup>H<sup>+</sup> 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.



132cells

### 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		LG420N3C-V6	LG415N3C-V6	LG410N3C-V6	LG405N3C-V6
Maximum Power (Pmax)	[W]	420	415	410	405
MPP Voltage (Vmpp)	[V]	38.3	37.9	37.5	37.1
MPP Current (Impp)	[A]	10.97	10.95	10.94	10.92
Open Circuit Voltage (Voc, ± 5%)	[V]	45.6	45.4	45.2	45.0
Short Circuit Current (Isc, ± 5%)	[A]	11.54	11.49	11.44	11.40
Module Efficiency	[%]	21.4	21.2	20.9	20.7
Power Tolerance	[%]	0 - +3			

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

## Electrical Properties (NMOT)

Model		LG420N3C-V6	LG415N3C-V6	LG410N3C-V6	LG405N3C-V6
Maximum Power (Pmax)	[W]	317	313	309	305
MPP Voltage (Vmpp)	[V]	36.1	35.7	35.3	34.9
MPP Current (Impp)	[A]	8.79	8.77	8.76	8.75
Open Circuit Voltage (Voc)	[V]	43.0	42.8	42.6	42.4
Short Circuit Current (Isc)	[A]	9.29	9.25	9.21	9.18

## General Data

Cell Properties (Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	132 Cells (6 x 22)
Number of Busbars	9 EA
Module Dimensions (L x W x H)	1,880 x 1,042 x 40 mm
Weight	19.7 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 / Staubli

## 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 50001 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% annual degradation, 3) 90.6% for 25 years

## Operating Conditions

Operating Temperature	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000
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

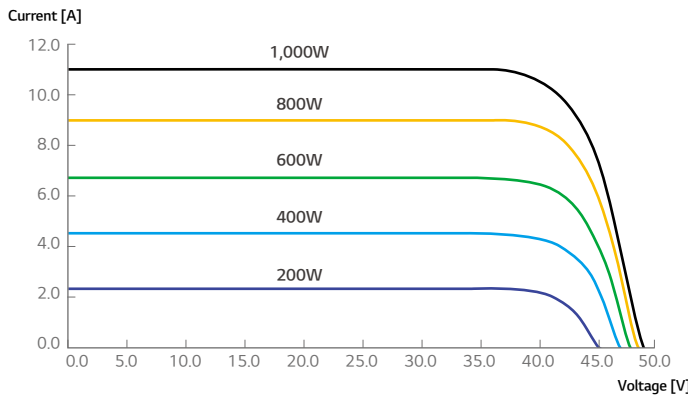
## Temperature Characteristics

NMOT*	[°C]	42 ± 3
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



## Dimensions (mm/inch)

