

The plus in
performance
and design



25 YEARS **LG**
Product and Performance Warranty

Up to 410 watts
Full Black
LG CELLO Design

LG NeON[®] H⁺ Black – Elegant design. Clean energy.

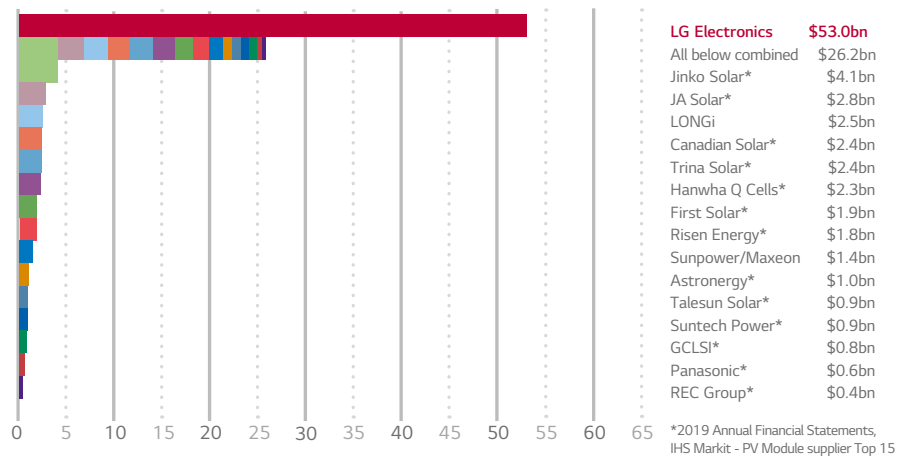
As its name suggests, the monocrystalline LG NeON[®] H⁺ Black solar module is completely black. Its discreet design means it can easily be integrated into any house roof. And the CELLO technology delivers a reliable output up to 410Wp.

Local guarantor, global security

LG Solar is part of LG Electronics, a global and financially strong company, with over 60 years of experience.

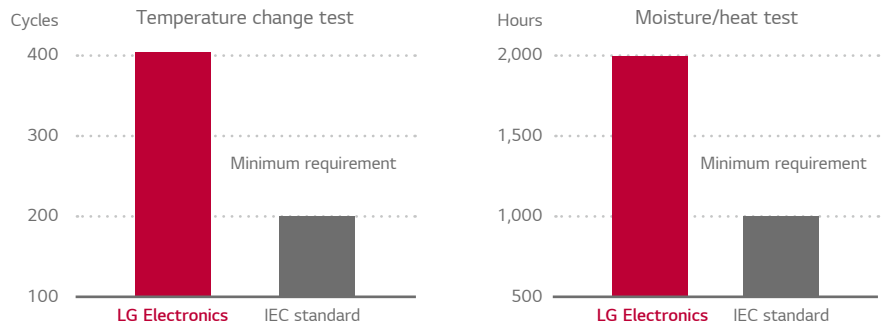
Good to know: LG Electronics is the warrantor for your solar modules. LG Electronics has been present in Europe with many local subsidiaries for decades.

The Warrantor's 2019 Global Sales in Billions of US Dollars



Excellent quality, independently tested

You can rely on LG. We test our products with double the intensity specified in the IEC standard. This quality is valued by installers across Europe, which is why they have awarded our LG solar modules the "Top Brand PV" stamp of quality for the highest recommendation rates for the 8th time in a row.



Understated elegance for beautiful roofs

The LG NeON[®] H⁺ Black solar module featuring a black anodized frame has been designed with improved aesthetics. Thanks to the use of thinner wires, it now looks totally black even from a distance. Its elegant design will fit in easily with the appearance of your home and may increase its value.

Powerful design, guaranteed robust (LG Standard)*

With reinforced frame design, LG NeON[®] H⁺ Black can endure a front load up to 6,000Pa (represents snow height of normal snow of more than 1,8 meters) and a rear load up to 5,400Pa (represents wind speed of up to 93m/s, compare max. wind speed of Hurricane Katrina 2005 of max. 75m/s).



* Module fully complies with the new IEC 61215-2: 2016 test procedures which confirmed 5,400 Pa front and 4,000 Pa rear side load. LG made internal tests to confirm 6,000 Pa front and 4,000 Pa rear side load also with new IEC 61215-2: 2016 norms. Further tests are on-going. Unless these tests turn out differently, LG confirms 6,000 Pa / 5,400 Pa.
 ** 1) 1st year: min. 98.5% 2) After 2nd year: max. 0.33% p annual degradation. 3) Min. 90.6% for 25 years.

LG NeON[®] H⁺ Black

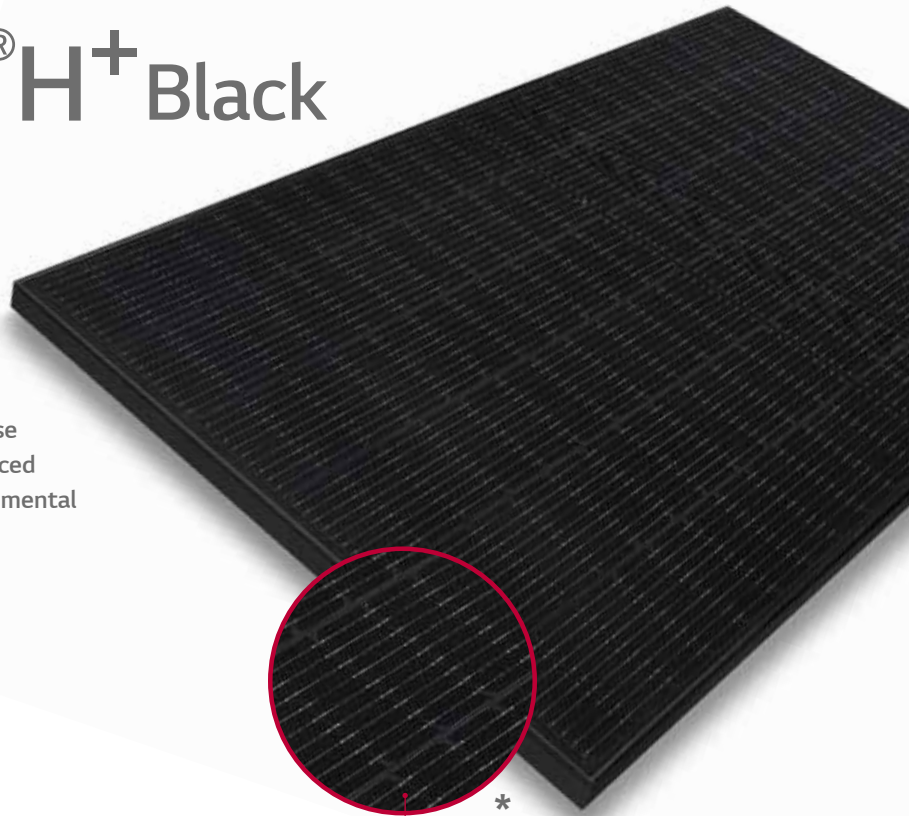
410 W | 405 W
400 W

132 Cells

NeON[®] H⁺ Black demonstrates LG's efforts to increase customer value beyond efficiency. It features enhanced warranty, durability, performance under real environmental conditions, and aesthetic design suitable for roofs.



TM 564573 BS EN 61215 Photovoltaic Modules



* CELLO technology

Key features



Enhanced Performance Warranty

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



25 Years Product Warranty

In addition to the extended performance guarantee LG also offers a strong product guarantee for 25 years.



Better Performance on a Sunny Day

LG NeON[®] H⁺ Black now performs better on a sunny days thanks to its improved temperature coefficient.



Outstanding Durability

With its reinforced frame design, LG NeON[®] H⁺ Black can endure a front load up to 6,000Pa, and a rear load up to 5,400Pa.

About LG Electronics

LG Electronics is a global big player, committed to expanding its operations with the solar market. 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. The LG NeON[®] (previous MonoX[®] NeON), NeON[®]2, NeON[®]2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG Solar's lead, innovation and commitment to the industry.
* The darkness of the panel may vary depending on the specific manufacturing procedure, and does not affect the quality and performance of the panel.

Mechanical Properties

Cells	132 Cells (6 x 22)
Cell Vendor	LG
Cell Type	Monocrystalline/N-type
# of Busbar	9 (Multi Wire Busbar)
Dimensions (L x W x H)	1,880 mm x 1,042 mm x 40 mm
Weight	19.7 kg
Mechanical Test Load ¹ :	6,000Pa (Front) 5,400Pa (Rear)
Junction Box	IP68 with 3 Bypass Diodes
Length of Cables	1.400 mm x 2
Connector (Type / Maker)	MC4 / MC
Front cover	Tempered Glass with AR Coating
Frame	Anodized Aluminum

* Manufacturer Declaration according to IEC 61215 : 2005

¹Mechanical Test Loads 5400 Pa / 4000 Pa based on IEC61215-2 : 2016
(Test Load = Design Load x Safety Factor (1.5))

Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2:2016, IEC 61730-1/2:2016
	OHSAS 18001
	ISO 9001, ISO 14001, ISO 50001
Salt Mist Corrosion Test	IEC 62701 : 2011 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Module Fire Performance	Class C
Product Warranty	25 years
Output Warranty of Pmax (Measurement Tolerance ± 3%)	25 years linear warranty ¹

¹ 1) 1st year: min. 98,5% 2) After 2nd year: max. 0.33% p annual degradation.
3) Min. 90.6% for 25 years.

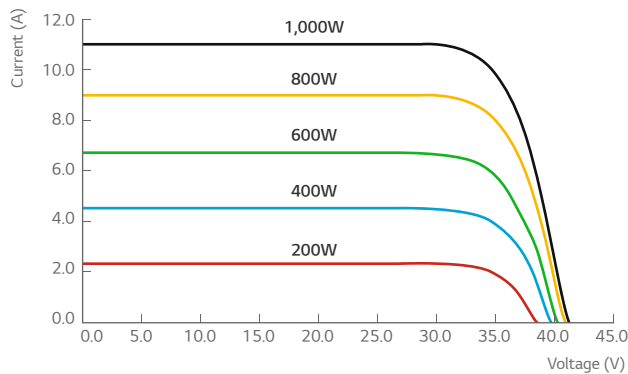
Temperature Coefficients

NMOT	42 ± 3 °C
Pmpp	-0.33 %/°C
Voc	-0.26 %/°C
Isc	0.04 %/°C

Packaging Configuration

Number of Modules Per Pallet	[EA]	25
Number of Modules Per 40ft HQ Container	[EA]	600
Packaging Box Dimensions (L x W x H)	[mm]	1,960 x 1,120 x 1,221
Packaging Box Gross Weight	[kg]	530

Characteristic Curves



Electrical Properties (STC²)

Model		LG410N3K-V6	LG405N3K-V6	LG400N3K-V6
Maximum Power Pmax	[W]	410	405	400
MPP Voltage Vmpp	[V]	38.0	37.6	37.2
MPP Current Impp	[A]	10.79	10.78	10.76
Open Circuit Voltage (Voc, ± 5%)	[V]	45.4	45.3	45.2
Short Circuit Current (Isc, ± 5%)	[A]	11.24	11.20	11.16
Module Efficiency	[%]	20.9	20.7	20.4
Operating Temperature	[°C]	-40 ~ +85		
Maximum System Voltage	[V]	1,000		
Maximum Series Fuse Rating	[A]	20		
Power Tolerance	[%]	0 ~ +3		

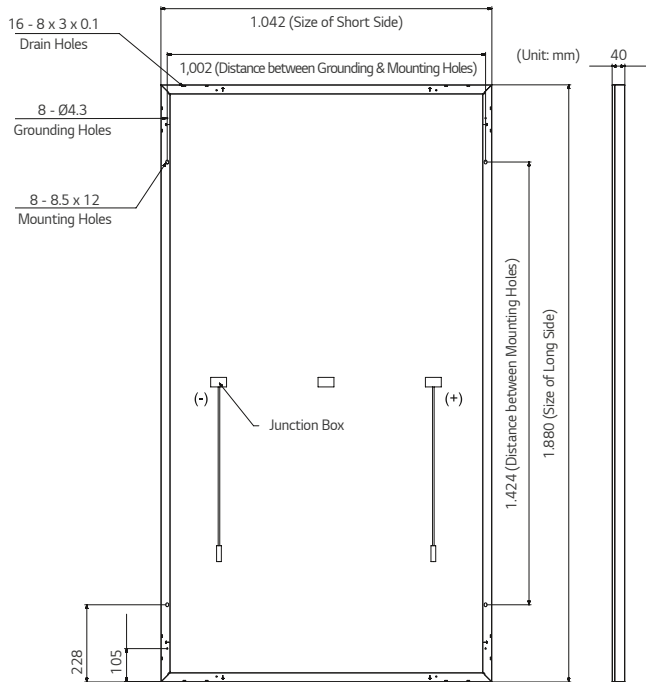
² STC (Standard Test Condition): Irradiance 1,000 W/m², Module Temperature 25 °C, AM 1.5, Measuring Tolerance Pmax: +/- 3%.

Electrical Properties (NMOT)

Model		LG410N3K-V6	LG405N3K-V6	LG400N3K-V6
Maximum Power Pmax	[W]	309	306	302
MPP Voltage Vmpp	[V]	34.8	35.4	35.0
MPP Current Impp	[A]	8.64	8.64	8.62
Open Circuit Voltage Voc	[V]	42.8	42.7	42.6
Short Circuit Current Isc	[A]	9.05	9.02	8.99

⁴ NMOT (Nominal Module Operating Temperature) : Irradiance 800 W/m², Ambient temperature 20 °C, Wind speed 1 m/s, Spectrum AM 1.5

Dimensions (mm)



The distance between the center of the mounting/grounding holes

