

# The next evolution leap



**25** YEARS **LG**

Product and Performance Warranty

BiFacial module  
Transparent backsheet

## LG NeON<sup>®</sup> H BiFacial – Unleash the power!

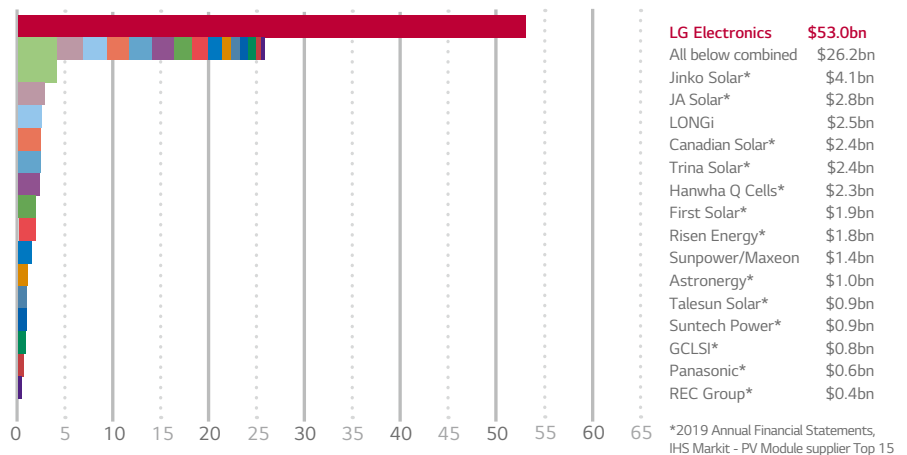
The LG NeON<sup>®</sup> H BiFacial is based on the well-known high-performance module LG NeON<sup>®</sup> 2. Already on the front side, the LG365N1T-V5 module reaches with its 60 highly efficient, mono-crystalline cells a basic power of 365 Watt peak (Wp). Through the use of bi-facial cells and a transparent back sheet, the power of the LG NeON<sup>®</sup> 2 solar modules with CELLO technology can now be fully exploited. Thanks to the additional yield from the back side of the module (“bifacial bonus”) the overall performance of the LG NeON<sup>®</sup> H BiFacial module increases under optimal conditions.

### 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.

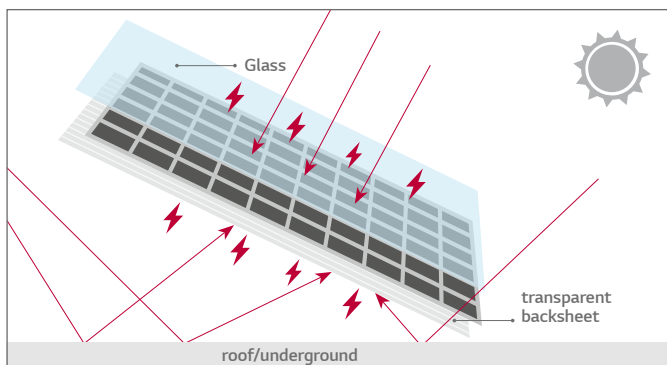
The Warrantor’s 2019 Global Sales in Billions of US Dollars



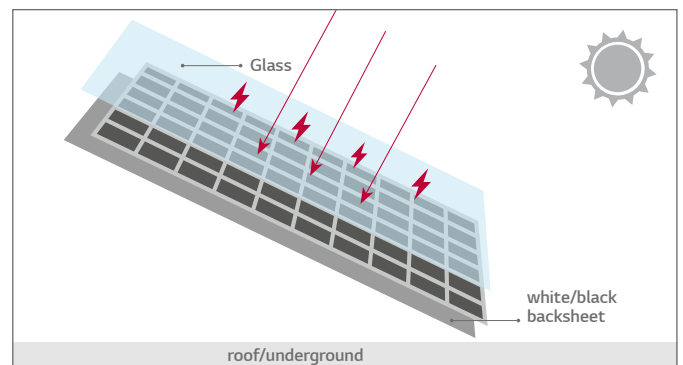
### LG NeON<sup>®</sup> H BiFacial – bonus!

Traditional, single-sided active cells and modules can absorb incident light only on the front side and convert it to electricity. The LG NeON<sup>®</sup> H BiFacial, however, has double-sided active cells and a translucent foil on the back. This enables to use both the light falling on the front side and on the back side, and increase energy yield under optimal conditions by up to 30 % compared to a monofacial module of equal nominal power.

#### Bifacial module



#### Monofacial module



Higher yield with 25-years of LG product and performance guarantee

### Extended Product Warranty

# 25 yrs

Linear Warranty: 25yrs\*

\* Under BiFi100 conditions, 1st year: 105.4%, after 1st year: 0.35 annual degradation, 96.4% for 25 years \*\* Based on STC max power



# LG NeON<sup>®</sup> H BiFacial

365W | 360W

## 120 cell

LG NeON<sup>®</sup> H BiFacial is designed to utilize both sides of the PV module for absorbing more light and generating more energy. It also adopts the prizewinning Cello technology which replaces 4 busbars with 9 thin wires to enhance power output and reliability. It is possible to produce a surplus of output energy with LG NeON<sup>®</sup> H BiFacial compared with normal monofacial modules.



- CELLO technology
- transparent backsheet

## Key Features



### 25-year product warranty

In addition to the extended performance warranty, LG has also extended the product warranty for LG NeON<sup>®</sup> H BiFacial modules to a strong 25 years.



### Bifacial Energy Yield

It is possible to produce 30 % more energy than with conventional modules under optimal conditions.



### Better Performance on a Sunny Day

LG NeON<sup>®</sup> H BiFacial now performs better than many other modules on sunny days thanks to its improved temperature coefficient.



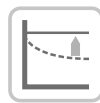
### More Power also on a Cloudy Day

LG NeON<sup>®</sup> H BiFacial gives good performance even on a cloudy day due to its very good weak sunlight performance.



### High Power Output

LG NeON<sup>®</sup> H BiFacial has been designed using LG's new CELLO technology. The cell efficiency on the rear side is only slightly lower than on the front side.



### Almost Zero LID (Light Induced Degradation)

The n-type cells used in LG NeON<sup>®</sup> H BiFacial have almost no boron, which often causes the initial efficiency drop, of conventional modules.

## 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<sup>®</sup> series to the market, which is now available in 32 countries. The LG NeON<sup>®</sup> (previous. MonoX<sup>®</sup> NeON), NeON<sup>®</sup>2, NeON<sup>®</sup>2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG Solar's lead, innovation and commitment to the industry.

### Mechanical Properties

Cells	120 Cells (6 x 20)
Cell Vendor	LG
Cell Type	Monocrystalline/N-type
# of Busbar	9 (Multi Wire Busbar)
Dimensions (L x W x H)	1,768 mm x 1,042 mm x 40 mm
Weight	18.5 kg
Mechanical Test Load <sup>*</sup> :	6,000Pa (Front) 5,400Pa (Rear)
Junction Box	IP68 with 3 Bypass Diodes
Length of Cables	2 x 1.200 mm
Connector (Type / Maker)	MC4 / Stäubli
Front cover	Tempered Glass with AR Coating
Frame	Anodized Aluminum

<sup>\*</sup>Declaration according to IEC 61215 : 2005 (Preliminary)  
Mechanical Test Loads 5400 Pa / 4000 Pa based on IEC61215-2 : 2016  
(Test Load = Design Load x Safety Factor (1.5))

### Electrical Properties (STC<sup>3</sup>)

Model		LG365N1T-E6			LG360N1T-E6		
		STC	BiFi100 <sup>**</sup>	BiFi200 <sup>**</sup>	STC <sup>*</sup>	BiFi100 <sup>**</sup>	BiFi200 <sup>**</sup>
Maximum Power (Pmax)	[W]	365	390	415	360	385	410
MPP Voltage (Vmpp)	[V]	34.7	34.7	34.7	34.5	34.5	34.5
MPP Current (Impp)	[A]	10.54	11.24	11.96	10.46	11.16	11.88
Open Circuit Voltage (Voc)	[V]	41.3	41.3	41.3	41.2	41.2	41.2
Short Circuit Current (Isc)	[A]	11.08	11.82	12.58	10.98	11.71	12.47
Module Efficiency	[%]	19.8	21.2	22.5	19.5	20.9	22.3
Operating Temperature	[°C]	-40 ~ +90					
Maximum System Voltage	[V]	1.000					
Maximum Series Fuse Rating	[A]	20					
Pmax Bifaciality Coefficient	[%]	70 ± 5					
Power Tolerance	[%]	0 ~ +3					

<sup>\*</sup>STC (Standard Test Condition): Irradiance 1,000 W/m<sup>2</sup>, Module Temperature 25 °C, AM 1.5.  
<sup>\*\*</sup>The electrical properties of BiFi100 and BiFi200 measure under the front side irradiance 1000W/m<sup>2</sup> + (100W/m<sup>2</sup> or 200W/m<sup>2</sup>) \* BiFi Use 100W/m<sup>2</sup> for BiFi100 and 200W/m<sup>2</sup> for BiFi200

### Certifications and Warranty

Certifications	IEC 61215-1/-1-1 / 2:20161), IEC 61730-1/2:20161), IEC 61701:2012 Severity 6 <sup>†</sup> (Salt mist corrosion test) IEC 62716:2013 <sup>†</sup> (Ammonia corrosion test) OHSAS 18001 ISO 9001, ISO 14001, ISO 50001	
	Fire Resistance Class	Class C, Fire Class 1 (Italy)
	Product Warranty	25 Years
	Output Warranty of Pmax	Linear Warranty <sup>†</sup>

<sup>†</sup> Under BiFi100 conditions, 1st year : 105.4%, after 1st year : 0.35 annual degradation, 96.4% for 25 years

### Electrical Properties (NMOT<sup>4</sup>)

Model		LG365N1T-E6			LG360N1T-E6		
		STC	BiFi100 <sup>**</sup>	BiFi200 <sup>**</sup>	STC <sup>*</sup>	BiFi100 <sup>**</sup>	BiFi200 <sup>**</sup>
Maximum Power (Pmax)	[W]	276	294	314	272	291	310
MPP Voltage (Vmpp)	[V]	32.6	32.6	32.6	32.5	32.5	32.5
MPP Current (Impp)	[A]	8.44	9.01	9.62	8.38	8.96	9.55
Open Circuit Voltage (Voc)	[V]	38.9	38.9	38.9	38.7	38.7	38.7
Short Circuit Current (Isc)	[A]	8.92	9.52	10.17	8.84	9.45	10.07

<sup>4</sup> NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s

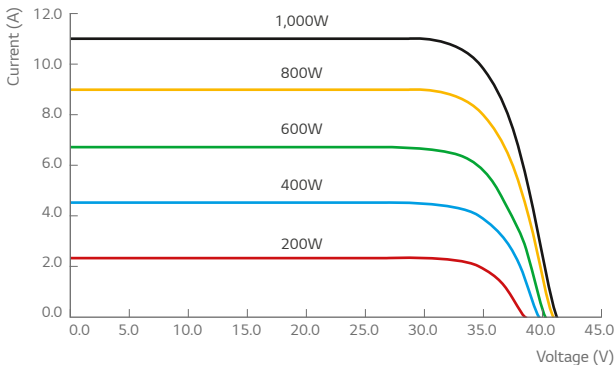
### Temperature Characteristics

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

### 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]	1,810 x 1,120 x 1,213
Packaging Box Gross Weight	[kg]	498

### Characteristic Curves



### Dimensions (mm)

