

# LG NeON<sup>®</sup>H BiFacial

The LG NeON<sup>®</sup>H BiFacial is one of the most powerful and versatile modules on the market today. The LG NeON<sup>®</sup>H BiFacial is designed to absorb sunlight from both the front and rear sides of its cells by using a transparent back sheet, providing up to 30% higher electricity production.

## 425W

### FEATURES

**96.4%**  
in year 25

#### Enhanced Performance Warranty

LG NeON<sup>®</sup>H BiFacial comes with an enhanced performance warranty. After 25 years of use, the LG NeON<sup>®</sup>H BiFacial is guaranteed to provide at least 96.4% 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 BiFacial.



#### Reliable Quality

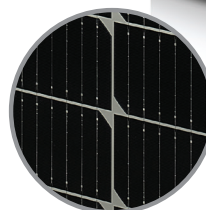
LG NeON<sup>®</sup>H BiFacial offers reliable and proven quality through rigorous testing\*.



#### More Generation In Less Space

LG NeON<sup>®</sup>H BiFacial is designed for efficient use even in limited space thanks to its output-enhancing dual-side absorption of sunlight.

\* 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.



# LG NeON<sup>®</sup>H BiFacial

LG425N2T-E6

## 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)	2,130 x 1,042 x 40 mm
Weight	22 kg
Glass (Material)	Tempered Glass with AR coating
Backsheet (Color)	Transparent
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

## 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

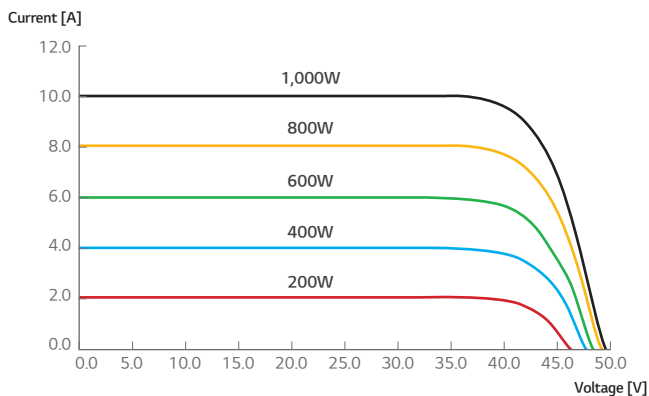
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.33
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.04

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

## Electrical Properties (NMOT)

Model	LG425N2T-E6			
	NMOT	BiFi100	BiFi200	
Maximum Power (Pmax)	[W]	321	343	366
MPP Voltage (Vmpp)	[V]	38.4	38.4	38.4
MPP Current (Impp)	[A]	8.35	8.93	9.52
Open Circuit Voltage (Voc)	[V]	46.0	46.0	46.0
Short Circuit Current (Isc)	[A]	8.76	9.38	10.00

## I-V Curves



## Electrical Properties

Model		LG425N2T-E6		
		STC	BiFi100**	BiFi200**
Maximum Power (Pmax)	[W]	425	455	485
MPP Voltage (Vmpp)	[V]	40.8	40.8	40.8
MPP Current (Impp)	[A]	10.42	11.15	11.89
Open Circuit Voltage (Voc, ± 5%)	[V]	48.8	48.8	48.8
Short Circuit Current (Isc, ± 5%)	[A]	10.88	11.64	12.41
Module Efficiency	[%]	19.1	20.5	21.8
Pmax Bifaciality Coefficient	[%]	70 ± 5		
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 %

\*\* The electrical properties of BiFi100 and BiFi200 measure under the front side irradiance 1,000W/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 / 2:2016, 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*

\* Initial 107%, 1st year 105.4%, After 1st year : -0.35%/year, 96.4% for 25 years (Based on BiFi100)

## 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]	2,172 x 1,120 x 1,221
Packaging Box Gross Weight	[kg]	588

## Dimensions (mm/inch)

