

# LG NeON<sup>®</sup>H

LG430N2T-E6

144

## 430W

The LG NeON<sup>®</sup> H is designed to absorb sunlight both from the front and the rear sides of its NeON<sup>®</sup> cell by using a transparent backsheet. The dual faces of the cell result in higher energy generation.



## Features



### 25-Year Limited Product Warranty

The NeON<sup>®</sup> H is covered by a 25-year limited product warranty.



### Bifacial Energy Yield

LG NeON<sup>®</sup> H modules use highly efficient bifacial solar cell. Through the technology, LG NeON<sup>®</sup> H can achieve up to 30% more energy than standard PV modules.



### Better Performance on a Sunny Day

LG NeON<sup>®</sup> H now performs better on sunny days, thanks to its improved temperature coefficient.



### More Generation on a Cloudy Day

The LG NeON<sup>®</sup> H performs well on cloudy days; weak sunlight conditions cause a low energy reduction.

When you go solar, ask for the brand you can trust: LG Solar

### About LG Electronics USA, Inc.

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. 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 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's leadership and innovation in the solar industry.



## LG430N2T-E6

### General Data

Cell Properties (Material/Type)	Monocrystalline/N-type
Cell Maker	LG
Cell Configuration	144 Cells (6 x 24)
Number of Busbars	9EA
Module Dimensions (L x W x H)	2,130mm x 1,042mm x 40 mm
Weight	22 kg
Glass (Thickness/Material)	2.8mm/Tempered Glass with AR Coating
Backsheet (Color)	Transparent
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,400mm x 2EA
Connector (Type/Maker)	MC 4/MC

### Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2:2016, IEC 61730-1/2:2016, UL 61730 ISO 9001, ISO 14001, ISO 50001 OHSAS 18001
Salt Mist Corrosion Test	IEC 61701:2012 Severity 6
Ammonia Corrosion Test	IEC 62716:2013
Module Fire Performance	Type 1 (UL 1703)
Fire Rating	Class C (UL 790)
Solar Module Product Warranty	25 Years
Solar Module Output Warranty	Linear Warranty*

\*Initial 107%, 1<sup>st</sup> year 105.4%, After 1<sup>st</sup> year: -0.35%/year, 96.4% at year 25 (Based on BiFi100)

### Temperature Characteristics

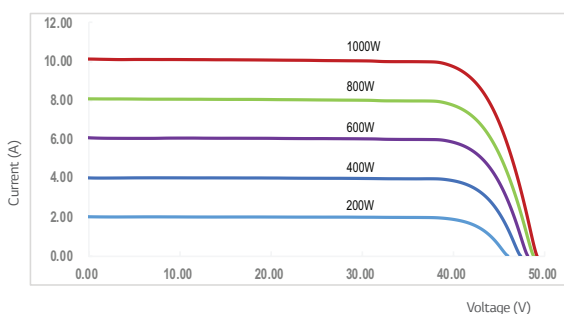
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.33
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.04

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

### Electrical Properties (NMOT)

Model	LG430N2T-E6			
	STC*	BiFi100**	BiFi200**	
Maximum Power (Pmax)	[W]	323	346	368
MPP Voltage (Vmpp)	[V]	38.0	38.0	38.0
MPP Current (Impp)	[A]	8.51	9.10	9.70
Open Circuit Voltage (Voc)	[V]	45.8	45.8	45.8
Short Circuit Current (Isc)	[A]	8.95	9.57	10.20

### I-V Curves



### Electrical Properties

Model	LG430N2T-E6			
	STC*	BiFi100**	BiFi200**	
Maximum Power (Pmax)	[W]	430	460	490
MPP Voltage (Vmpp)	[V]	40.4	40.4	40.4
MPP Current (Impp)	[A]	10.65	11.39	12.13
Open Circuit Voltage (Voc)	[V]	48.6	48.6	48.6
Short Circuit Current (Isc)	[A]	11.12	11.88	12.66
Module Efficiency	[%]	19.4	20.7	22.1
Pmax Bifaciality Coefficient	[%]	75 ± 5		
Power Tolerance	[%]	0 ~ +3		

\*STC (Standard Test Condition): Irradiance 1000W/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 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. 2) IEC/ UL Certifications is scheduled to proceed.

### Operating Conditions

Operating Temperature	[°C]	-40 ~ +90
Maximum System Voltage	[V]	1,000(IEC)/1500(UL)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load (Front)	[Pa/psf]	5,400/113
Mechanical Test Load (Rear)	[Pa/psf]	3,000/63

\*Test Load = Design Load x Safety Factor (1.5)

### Packaging Configuration

Number of Modules per Pallet	[EA]	25
Number of Modules per 40' Container	[EA]	550
Number of Modules per 53' Container	[EA]	750
Packaging Box Dimensions (L x W x H)	[mm]	2,160 x 1,120 x 1,213
Packaging Box Dimensions (L x W x H)	[in]	85 x 44.1 x 47.8
Packaging Box Gross Weight	[kg]	610
Packaging Box Gross Weight	[lb]	1,345

### Dimensions (mm/inch)

