LG NeON®H

LG435N2T-E6

144

435W

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

25 YEAR PRODUCT • PERFORMANCE WARRANTY

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Features

25-Year Limited Product Warranty

The NeON® H is covered by a 25-year limited product warranty.

Bifacial Energy Yield

LG NeON® H modules use highly efficient bifacial solar cell, "NeON" applied Cello technology. Through the Cello technology, LG NeON® H can achieve up to 30% more energy than standard PV modules.

Better Performance on a Sunny Day

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

More Generation on a Cloudy Day

The LG NeON® 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® series to the market, which is now available in 32 countries. The NeON® (previous MonoX® NeON), NeON®2, NeON®2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.

LG Life's Good

LG NeON®H

LG435N2T-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	23 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%, 1st year 105.4%, After 1st year: -0.35%/year, 96.9% at year 25 (Based on BiFi100)

Temperature Characteristics

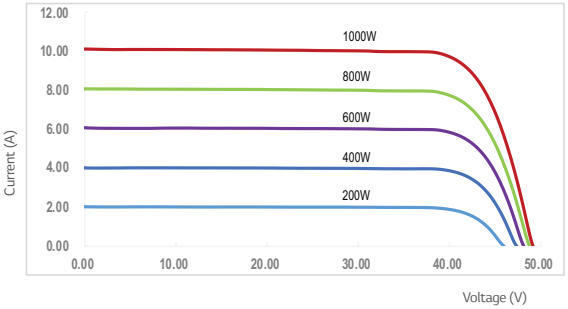
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.36
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.03

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

Electrical Properties (NMOT)

Model		LG435N2T-E6		
		STC*	BiFi100**	BiFi200**
Maximum Power (Pmax)	[W]	327	349	372
MPP Voltage (Vmpp)	[V]	38.2	38.2	38.2
MPP Current (Impp)	[A]	8.55	9.14	9.73
Open Circuit Voltage (Voc)	[V]	45.9	45.9	45.9
Short Circuit Current (Isc)	[A]	8.98	9.60	10.22

I-V Curves



Electrical Properties

Model		LG435N2T-E6		
		STC*	BiFi100**	BiFi200**
Maximum Power (Pmax)	[W]	435	465	495
MPP Voltage (Vmpp)	[V]	40.7	40.7	40.7
MPP Current (Impp)	[A]	10.70	11.44	12.17
Open Circuit Voltage (Voc)	[V]	48.7	48.7	48.7
Short Circuit Current (Isc)	[A]	11.15	11.92	12.68
Module Efficiency	[%]	19.6	21.0	22.3
Pmax Bifaciality Coefficient	[%]	75 ± 5		
Power Tolerance	[%]	0 ~ +3		

*STC (Standard Test Condition): Irradiance 1000W/m², Cell temperature 25°C, AM 1.5, Measure Tolerance: ± 3%
**The electrical properties of BiFi100 and BiFi200 measure under the front side irradiance 1000W/m² + (100W/m² or 200W/m²)* BiFi. Use 100W/m² for BiFi100 and 200W/m² for BiFi200.
2) IEC/ UL Certifications is scheduled to proceed.

Operating Conditions

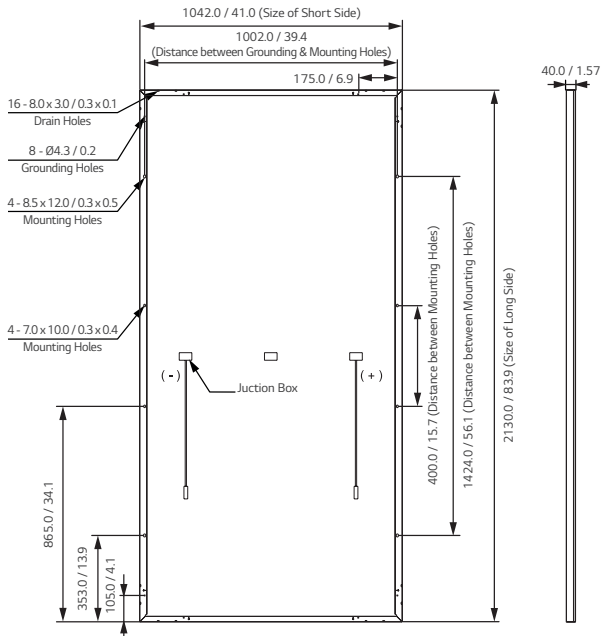
Operating Temperature	[°C]	-40 ~+90
Maximum System Voltage	[V]	1,000(IEC)/1500(UL)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load* (Front)	[Pa/psf]	5,400/113
Mechanical Test Load* (Rear)	[Pa/psf]	3,000/63

*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]	2,172 x 1,120 x 1,213
Packaging Box Dimensions (L x W x H)	[in]	85.5 x 44.1 x 47.8
Packaging Box Gross Weight	[kg]	593
Packaging Box Gross Weight	[lb]	1,307

Dimensions (mm/inch)



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Product specifications are subject to change without notice.
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