LG NeON®H

LG430N2T-E6



144

430W

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.







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 a highly efficient bifacial solar cell, "NeON" applied Cello technology for better energy production than standard monofacial PV module.



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 Solar.





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

cer arreadons and warrancy			
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, 96.4% at year 25 (Based on BiFi100)

Temperature Characteristics

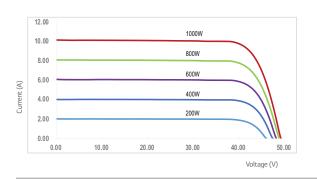
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.33
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.04

^{*}NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², 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	
Bifaciality Coefficient of Power	[%]		70		
Pmax Bifaciality Coefficient	[%]	75 5			
Power Tolerance	[%]	0~+3			

^{*}STC (Standard Test Condition): Irradiance 1000W/m², Cell temperature 25°C, AM 1.5,

Operating Conditions

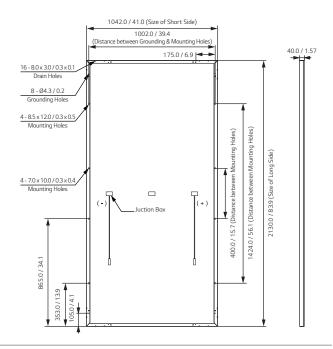
Operating Temperature	[°C]	-40 ~+90
Maximum System Voltage	[V]	1,000(IEC)/1500(UL)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load* (Front)	[Pa/psf]	5,400/113
Mechanical Test Load* (Rear)	[Pa/psf]	3.000/63

^{*}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)



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.