

LG NeON[®] H

LG440N2T-E6



144

440W

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.

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.



LG440N2T-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%, 1st year 105.4%, After 1st year: -0.35%/year, 96.4% at year 25 (Based on BiFi100)

Temperature Characteristics

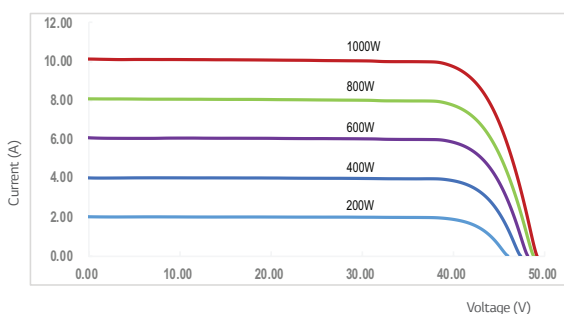
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.33
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.04

*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	LG440N2T-E6			
	STC*	BiFi100**	BiFi200**	
Maximum Power (Pmax)	[W]	331	353	376
MPP Voltage (Vmpp)	[V]	38.3	38.3	38.3
MPP Current (Impp)	[A]	8.63	9.21	9.80
Open Circuit Voltage (Voc)	[V]	46.0	46.0	46.0
Short Circuit Current (Isc)	[A]	9.01	9.62	10.23

I-V Curves



Electrical Properties

Model	LG440N2T-E6			
	STC*	BiFi100**	BiFi200**	
Maximum Power (Pmax)	[W]	440	470	500
MPP Voltage (Vmpp)	[V]	40.8	40.8	40.8
MPP Current (Impp)	[A]	10.79	11.52	12.25
Open Circuit Voltage (Voc)	[V]	48.9	48.9	48.9
Short Circuit Current (Isc)	[A]	11.18	11.94	12.70
Module Efficiency	[%]	19.8	21.2	22.5
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, 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]	2,160 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)

