LG NeON®H BiFacial

The LG NeON®H BiFacial is one of the most powerful and versatile modules on the market today. The LG NeON®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.

445W

FEATURES

Enhanced Performance Warranty

96.4% in year 25

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

Industry-Leading Product Warranty

25 YEARS WARRANTY

LG offers an industry-leading 25 year product warranty on the NeON®H BiFacial.

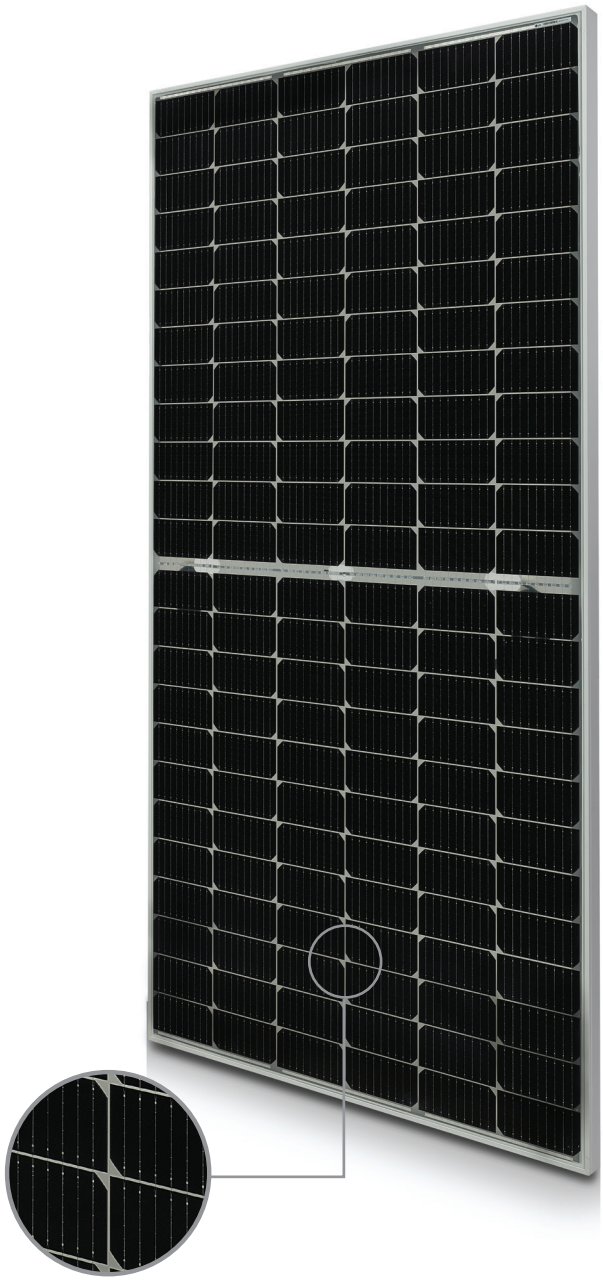
Reliable Quality

LG NeON®H BiFacial offers reliable and proven quality through rigorous testing*.

More Generation In Less Space

LG NeON®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.



144cell

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 Life's Good

LG NeON®H BiFacial

LG445N2T-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

Electrical Properties

Model		LG445N2T-E6		
		STC	BiFi100**	BiFi200**
Maximum Power (Pmax)	[W]	445	475	505
MPP Voltage (Vmpp)	[V]	42.0	42.0	42.0
MPP Current (Impp)	[A]	10.61	11.31	12.02
Open Circuit Voltage (Voc, ± 5%)	[V]	50.0	50.0	50.0
Short Circuit Current (Isc, ± 5%)	[A]	11.11	11.89	12.67
Module Efficiency	[%]	20.0	21.4	22.8
Pmax Bifaciality Coefficient	[%]	70 ± 5		
Power Tolerance	[%]	0 ~ +3		

* STC (Standard Test Condition) :
: Irradiance 1000W/m², Cell temperature 25℃, 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.

Temperature Characteristics

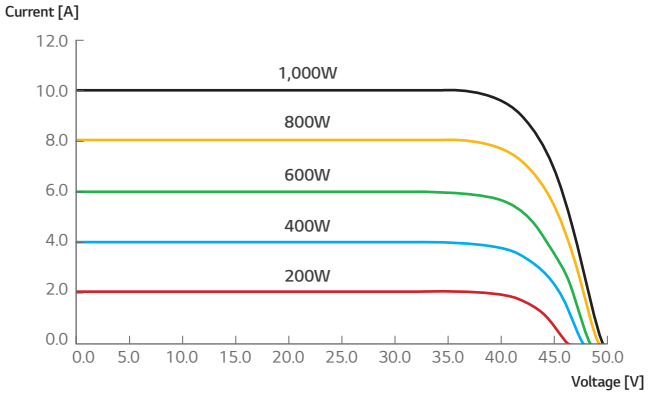
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.33
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.04

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

Electrical Properties (NMOT)

Model		LG445N2T-E6		
		NMOT	BiFi100**	BiFi200**
Maximum Power (Pmax)	[W]	336	360	383
MPP Voltage (Vmpp)	[V]	39.5	39.5	39.5
MPP Current (Impp)	[A]	8.50	9.09	9.69
Open Circuit Voltage (Voc)	[V]	47.2	47.2	47.2
Short Circuit Current (Isc)	[A]	8.95	9.57	10.20

I-V Curves



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
	ISO 45001
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)

Operating Conditions

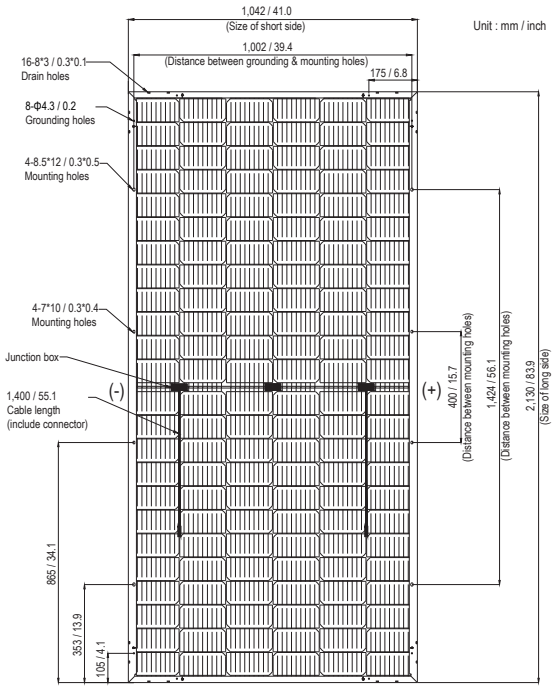
Operating Temperature	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000(IEC) / 1,500(UL)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load* (Front)	[Pa]	5,400
Mechanical Test Load* (Rear)	[Pa]	3,000

* Based on IEC 61215-2 : 2016 (Test Load = Design Load x Safety Factor(1.5))

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)



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