

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.

440W | 435W | 430W

FEATURES

96.4%
in year 25

Enhanced Performance Warranty

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.

25
YEARS
WARRANTY

Industry-Leading Product Warranty

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



Reliable Quality

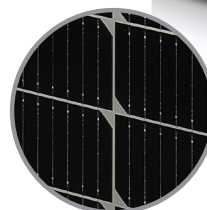
LG NeON[®]H BiFacial offers reliable and proven quality through rigorous testing*.



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.



144_{cell}

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 NeON[®]H BiFacial

LG440N2T-E6 / LG435N2T-E6 / LG430N2T-E6

Electrical Properties

Model	LG440N2T-E6			LG435N2T-E6			LG430N2T-E6			
	STC*	BiFi100**	BiFi200**	STC	BiFi100**	BiFi200**	STC	BiFi100**	BiFi200**	
Maximum Power (Pmax)	[W]	440	470	500	435	465	495	430	460	490
MPP Voltage (Vmpp)	[V]	41.7	41.7	41.7	41.4	41.4	41.4	41.1	41.1	41.1
MPP Current (Impp)	[A]	10.56	11.27	11.99	10.51	11.24	11.96	10.47	11.19	11.93
Open Circuit Voltage (Voc, ± 5%)	[V]	49.7	49.7	49.7	49.4	49.4	49.4	49.1	49.1	49.1
Short Circuit Current (Isc, ± 5%)	[A]	11.06	11.83	12.61	11.00	11.77	12.54	10.94	11.71	12.47
Module Efficiency	[%]	19.8	21.2	22.5	19.6	21.0	22.3	19.4	20.7	22.1
Pmax Bifaciality Coefficient	[%]				70 ± 5					
Power Tolerance	[%]				0 ~ +3					

* STC (Standard Test Condition) : Irradiance 1,000W/m², Cell temperature 25°C, AM 1.5, Measure Tolerance : ± 3 %

** The electrical properties of BiFi100 and BiFi200 measure under the front side irradiance 1,000W/m² + (100W/m² or 200W/m²) * BiFi. Use 100W/m² for BiFi100 and 200W/m² for BiFi200.

Electrical Properties (NMOT)

Model	LG440N2T-E6			LG435N2T-E6			LG430N2T-E6			
	NMOT	BiFi100	BiFi200	NMOT	BiFi100	BiFi200	NMOT	BiFi100	BiFi200	
Maximum Power (Pmax)	[W]	332	355	379	328	351	374	325	347	370
MPP Voltage (Vmpp)	[V]	39.3	39.3	39.3	39.0	39.0	39.0	38.7	38.7	38.7
MPP Current (Impp)	[A]	8.46	9.05	9.64	8.42	9.01	9.60	8.39	8.97	9.56
Open Circuit Voltage (Voc)	[V]	46.9	46.9	46.9	46.6	46.6	46.6	46.3	46.3	46.3
Short Circuit Current (Isc)	[A]	8.91	9.53	10.16	8.86	9.48	10.10	8.81	9.43	10.05

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

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
	OHSAS 18001
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))

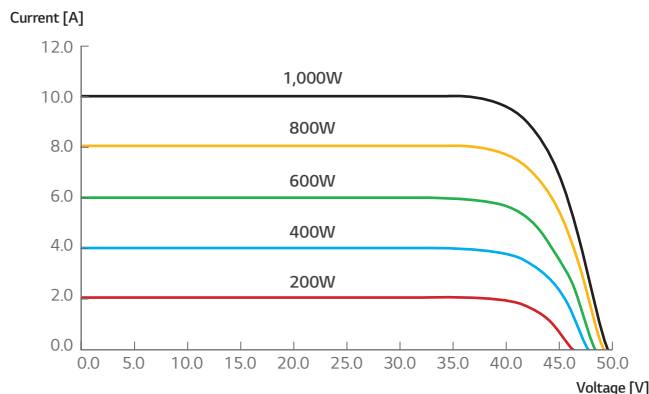
Temperature Characteristics

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°C, Wind speed 1m/s, Spectrum AM 1.5

I-V Curves



Dimensions (mm/inch)

