

# LG NeON<sup>®</sup>H BiFacial

## Electrical Properties (STC\*)

Module Type	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 Imp (A)	10.56	11.27	11.99	10.51	11.24	11.96	10.47	11.19	11.93
Open Circuit Voltage Voc (V)	49.7	49.7	49.7	49.4	49.4	49.4	49.1	49.1	49.1
Short Circuit Current Isc (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
Operating Temperature (°C)	-40 ~ +85								
Maximum System Voltage (V)	1000 (IEC)								
Maximum Series Fuse Rating (A)	20								
Power Tolerance (%)	0 ~ +3								

\* STC (Standard Test Condition) : Irradiance 1,000W/m<sup>2</sup>, Cell temperature 25°C, AM 1.5

\*\* The electrical properties of BiFi100 and BiFi200 measure under the front side irradiance 1,000W/m<sup>2</sup> + (100W/m<sup>2</sup> or 200W/m<sup>2</sup>) \* BiFi. Use 100W/m<sup>2</sup> for BiFi100 and 200W/m<sup>2</sup> for BiFi200.

## Electrical Properties (NMOT)

Module Type	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 Imp (A)	8.46	9.05	9.64	8.42	9.01	9.60	8.39	8.97	9.56
Open Circuit Voltage (Voc)	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

## Mechanical Properties

Cell Configuration	144 Cells (6 x 24)
Cell Maker	LG
Cell Properties	Monocrystalline / N-type
Number of Busbars	9EA
Dimensions (L x W x H)	2130 x 1042 x 40 mm
Front Load (test)	5400 Pa
Rear Load (test)	3000 Pa
Weight	22kg
Connector Type	Genuine MC4, IP68 (Male: PV-KST4) (Female: PV-KBT4)
Junction Box	IP68 with 3 bypass diodes
Length of Cables	2 x 1400 mm EA
Glass (Material)	Tempered Glass with AR Coating
Frame	Anodised aluminum with transparent backsheet

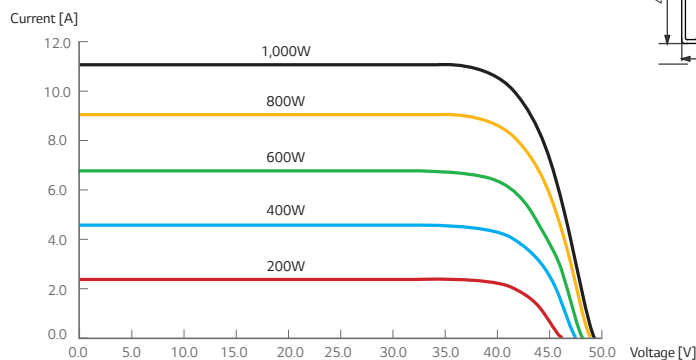
## Temperature Characteristics

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

\* NMOT (Nominal Module Operating Temperature)

: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1m/s, Spectrum AM 1.5

## I-V Curves

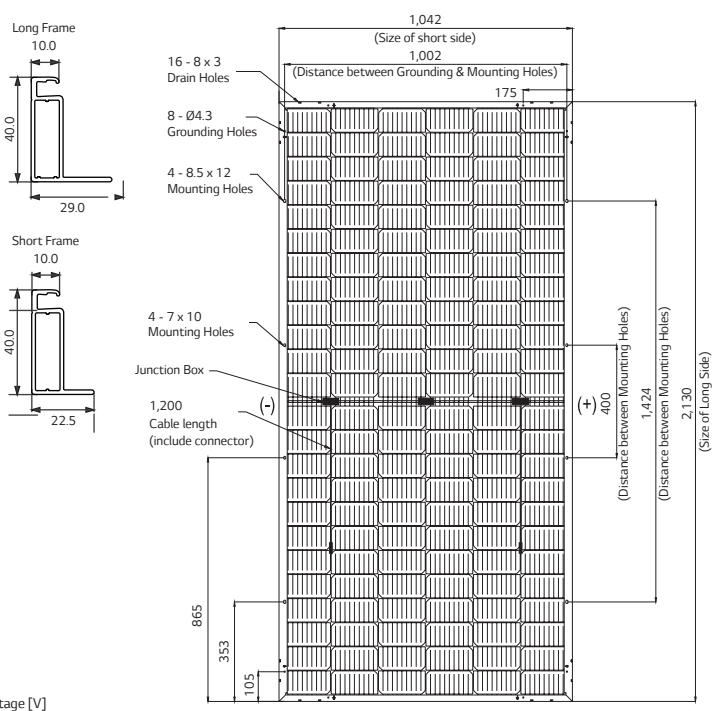


## Certifications and Warranty

Certifications	ISO 9001, ISO 14001
	IEC 61215-1 / -1-1 / 2:2016, IEC 61730-1 / 2:2016, UL 61730-1:2017, UL 61730-2:2017
	OHSAS 18001
Salt Mist Corrosion Test	IEC 61701 : 2011 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Fire Rating	Class C (UL 790)
Product Warranty	25 Years
Output Warranty of Pmax (Measurement Tolerance ± 3%)	Linear Warranty <sup>1</sup>

<sup>1</sup> 1) 1st year: 98.5%, 2) After 1st year: 0.33% annual degradation, 3) 90.6% after 25 years

## Dimensions (mm)



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Product specifications are subject to change without prior notice.  
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\*Designed and developed in Korea.  
Made in China to LG specifications.  
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