LG NeON®2 BiFacial

Preliminary

LG415N2T-L5 I LG410N2T-L5 I LG405N2T-L5

Electrical Properties (STC*)

		LG415N2T - L5			LG410N2T - L5			LG405N2T - L5		
		STC*	BiFi100**	BiFi200**	STC*	BiFi100**	BiFi200**	STC*	BiFi100**	BiFi200**
Maximum Power (Pmax)	[W]	415	440	470	410	435	465	405	430	460
MPP Voltage (Vmpp)	[V]	42.3	42.3	42.3	41.9	41.9	41.9	41.5	41.5	41.5
MPP Current (Impp)	[A]	9.82	10.40	11.11	9.79	10.38	11.10	9.76	10.36	11.08
Open Circuit Voltage (Voc, ±5%)	[V]	49.5	49.5	49.5	49.4	49.4	49.4	49.3	49.3	49.3
Short Circuit Current (Isc, ±5%)	[A]	10.50	11.12	11.88	10.46	11.10	11.86	10.42	11.06	11.83
Module Efficiency	[%]	20.0	21.2	22.7	19.8	21.0	22.4	19.5	20.7	22.2
Pmax Bifaciality Coefficient	[%]	75 ± 5								
Power Tolerance	[%]	0 ~ +3								

* STC(Standard Test Condition) : Irradiance 1000W/m², Cell Temperature 25℃, AM 1.5, Measure Tolerence : ±3%

** The electrical properties of BiFi100 and BiFi200 measure under the front irradiance 1000W/m² + (1000W/m² or 200W/m²)*BiFi. Use 100W/m² for BiFi100 and 200W/m² for BiFi200

Electrical Properties (NMOT*)

Model		LG415N2T - L5			LG410N2T - L5			LG405N2T - L5		
		STC*	BiFi100**	BiFi200**	STC*	BiFi100**	BiFi200**	STC*	BiFi100**	BiFi200**
Maximum Power (Pmax)	[W]	311	330	352	307	326	348	303	322	345
MPP Voltage (Vmpp)	[V]	39.8	39.8	39.8	39.4	39.4	39.4	39.0	39.0	39.0
MPP Current (Impp)	[A]	7.83	8.29	8.86	7.80	8.28	8.85	7.78	8.26	8.84
Open Circuit Voltage (Voc)	[V]	46.7	46.7	46.7	46.6	46.6	46.6	46.5	46.5	46.5
Short Circuit Current (Isc)	[A]	8.44	8.94	9.55	8.41	8.92	9.54	8.38	8.89	9.52

General Data

Cell Properties(Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	72 Cells (6 x 12)
Number of Busbar	12EA
Module Dimensions (L x W x H)	2,024mm x 1,024mm x 40 mm
Weight	21.5kg
Glass(Thickness / Material)	2.8mm / Tempered Glass with AR coating
Backsheet(Color)	Transparent
Frame(Material)	Anodized Aluminium
Junction Box(Protection Degree)	IP68 with 3 Bypass Diodes
Cables(Length)	1,200 mm x 2 EA
Connector(Type / Maker)	MC 4 / MC

Certifications and Warranty(TBD)

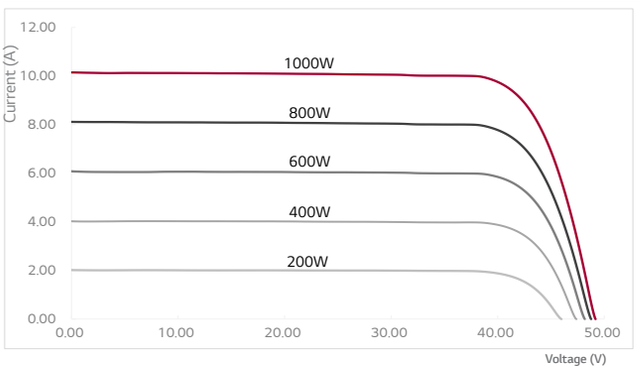
Certifications	IEC 61215-1/-1-1/2 : 2016, IEC 61730-1/2:2016, UL 1703
	ISO 9001, ISO 14001, ISO 50001
	OHSAS 18001
Salt Mist Corrosion Test	IEC 61701 : 2012 Severity 6
Ammonia Corrosion Test	IEC 62716:2013
Module Fire Performance	Type 1 (UL 1703)
Fire Rating	Class C (ULC/ORD C 1703)
Product Warranty	25 Years
Output Warranty of Pmax	Linear Warranty*

* Under BiFi 100 condition, 1st year 104.4%, after 1st year : 0.35 annaul degradation, 95.4% for 25 years
** Based on STC max power

Packaging Configuration

Number of Modules Per Pallet	[EA]	25
Number of Modules Per 40ft HQ Container	[EA]	550
Packaging Box Dimensions (L x W x H)	[mm]	2,080 x 1,120 x 1,226
Packaging Box Gross Weight	[kg]	551

I-V Curves



Operating Conditions

Operating Temperature	[℃]	-40 ~ +90
Maximum System Voltage	[V]	1,000(IEC) / 1,500(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

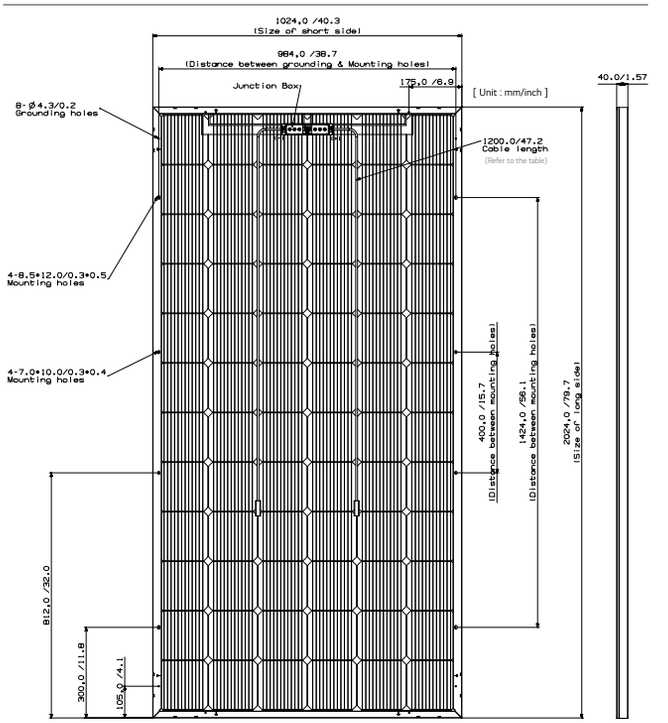
※Mechanical Test Load 5,400Pa / 4,000Pa based on IEC 61215-2 : 2016
(Test Load = Design Load x Safety Factor(1.5))

Temperature Characteristics

NMOT*	[℃]	42 ± 3
Pmax	[%/℃]	-0.35
Voc	[%/℃]	-0.26
Isc	[%/℃]	0.03

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

Dimensions (mm / inch)



LG Life's Good

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Product specifications are subject to change without notice.
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