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Solar Panel Guide Specification Data Sheet

LG Electronics, Inc.
LG NeON® 2 BiFacial 60cells 330-340
LG340N1T - V5

LG No 2 BiFacial

LG315N1T-A5 | LG310N1T-A5



315W | 310W

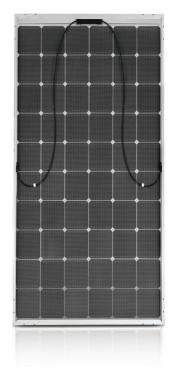
The LG NeON® 2 BiFacial is designed to absorb irradiance not only from the front but also the rear of its NeON® cell by using a transparent back sheet. The dual faces of the cell allows for higher energy generation.













Feature



Enhanced Performance Warranty

LG NeON® 2 BiFacial has an enhanced performance warranty. LG NeON® 2 BiFacial is guaranteed at least 84.8% of initial performance.



Bifacial Energy Yield

LG NeON® 2 BiFacial modules use highly efficient bifacial solar cell, "NeON" applied Cello Technology. Through the Cello technology, LG NeON® 2 BiFacial can achieve up to 30% more energy than standard PV module.



Better Performance on a Sunny Day

LG NeON® 2 BiFacial now performs better on sunny days thanks to its improved temperature coefficiency.



More Generation on a Cloudy Day

LG NeON® 2 BiFacial gives good performance even on a cloudy day due to its low energy reduction in weak sunlight.



BOS (Balance Of System) Saving

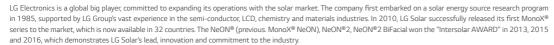
LG NeON® 2 BiFacial can reduce the total number of strings due to its high module efficiency resulting in a more cost effective and efficient solar power system.



Near Zero LID (Light Induced Degradation)

The n-type cells used in LG NeON® 2 BiFacial have almost no boron, which may cause the initial efficiency to drop, leading to less LID.

About LG Electronics







LG315N1T-A5 | LG310N1T-A5

Electrical Properties (STC*)

		LG315N1T-A5	Bifaical Gain**				LG310N1T-A5	Bifacial Gain**			
		LG313N11-A3	5%	10%	20%	30%	LG3 TUNTT-A5	5%	10%	20%	30%
Maximum Power (Pmax)	[W]	315	331	347	378	410	310	326	341	372	403
MPP Voltage (Vmpp)	[V]	33.5	33.5	33.5	33.6	33.6	33.1	33.1	33.1	33.2	33.2
MPP Current (Impp)	[A]	9.41	9.88	10.36	11.25	12.20	9.38	9.85	10.30	11.20	12.14
Open Circuit Voltage (Voc)	[V]	40.8	40.8	40.8	40.9	40.9	40.7	40.7	40.7	40.8	40.8
Short Circuit Current (Isc)	[A]	10.12	10.63	11.14	12.11	13.12	10.08	10.58	11.09	12.06	13.07
Module Efficiency	[%]	17.8	18.7	19.6	21.3	23.1	17.5	18.4	19.2	21.0	22.6
Operating Temperature	[°C]	-40~+90									
Maximum System Voltage	[V]	1,000									
Maximum Series Fuse Rating	[A]	20									
Pmax Bifaciality Coefficient	[%]	82									
Power Tolerance	[%]	0~+3									

Mechanical Properties

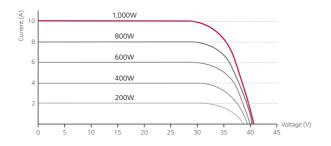
6 x 10			
Monocrystalline / N-type			
161.7 x 161.7 mm / 6 inches			
12(Multi Wire Busbar)			
1,730 x 1,024 x 40 mm			
6,000 Pa			
5,400 Pa			
19.6 kg			
MC4 (MC)			
IP68 with 3 Bypass Diodes			
1,000 mm x 2 ea			
High Transmission Tempered Glass			
Anodized Aluminium			

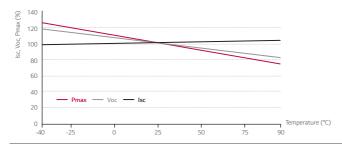
Electrical Properties (NOCT*)

Model		LG315N1T-A5	LG310N1T-A5	
Maximum Power (Pmax)	[W]	233	229	
MPP Voltage (Vmpp)	[V]	31.0	30.6	
MPP Current (Impp)	[A]	7.51	7.49	
Open Circuit Voltage (Voc)	[V]	38.0	37.9	
Short Circuit Current (Isc) [A]		8.14	8.11	

 $[\]star$ NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², Ambient temperature 20 °C, wind speed 1 m/s

Characteristic Curves





Certifications and Warranty

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	UL 1703			
	IEC 61215, IEC 61730-1/-2			
Certifications	IEC 61701 (Salt mist corrosion test)			
	IEC 62716 (Ammonia corrosion test)			
	ISO 9001			
Module Fire Performance	Type 1			
Fire Resistance Class	Class C			
Product Warranty	12 Years			
Output Warranty of Pmax	Linear Warranty*			

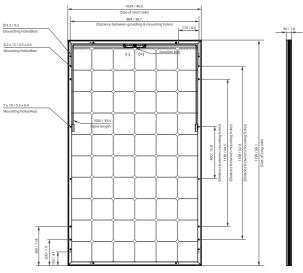
^{* 1) 1}st year: 98%, 2) After 1st year: 0.55%p annual degradation, 3) 84.8% for 25 years

Temperature Characteristics

•		
NOCT	[℃]	45 ± 3
Pmax	[%/°C]	-0.37
Voc	[%/°C]	-0.27
Isc	[%/°C]	0.03

Dimensions (mm / inch)





* The distance between the center of the mounting/grounding holes.

DS-N5-72-W-G-F-EN-70615



LG Electronics Inc. Solar Business Division LG Twin Towers, 128 Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Korea

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Product specifications are subject to change without notice.



^{*} STC (Standard Test Condition): Irradiance 1,000 W/m², cell Temperature 25 °C, AM 1.5
* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.
** Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on installation condition.
*** Bifaciality Coefficient: 25 years warranty based on front output warranty, tolerance ± 7%