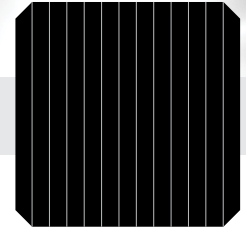


LG NeON[®] 2 BiFacial



72

405W | 400W | 395W | 390W

The LG NeON[®] 2 BiFacial is designed to absorb sunlight both from the front and the rear sides of its NeON[®] cell by using a transparent backsheet. The dual faces of the cell result in higher energy generation



Feature



Enhanced Product warranty

LG provides the product warranty of the LG NeON[®] 2 BiFacial to an industry-leading 25 years.



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 Sunny Day

LG NeON[®] 2 BiFacial now performs better on sunny days, thanks to its improved temperature coefficient.



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.

About LG Electronics

LG Electronics is a global big player, committed to expanding its operations with the solar market. The company first embarked on a solar energy source research program in 1985, supported by LG Group's vast experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first MonoX[®] series to the market, which is now available in 32 countries. The NeON[®] (previous MonoX[®] NeON), NeON[®]2, NeON[®]2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG Solar's lead, innovation and commitment to the industry.



LG NeON[®] 2 BiFacial

LG405N2T-J5 | LG400N2T-J5 | LG395N2T-J5 | LG390N2T-J5

Electrical Properties

Model	LG405N2T-J5			LG400N2T-J5			LG395N2T-J5			LG390N2T-J5		
	STC*	BiFi100**	BiFi200**	STC*	BiFi100**	BiFi200**	STC*	BiFi100**	BiFi200**	STC*	BiFi100**	BiFi200**
Maximum Power (Pmax) [W]	405	430	455	400	425	450	395	420	445	390	415	440
MPP Voltage (Vmpp) [V]	41.9	41.9	41.9	41.5	41.5	41.5	41.1	41.1	41.1	40.7	40.7	40.7
MPP Current (Impp) [A]	9.68	10.26	10.86	9.65	10.24	10.84	9.62	10.22	10.83	9.59	10.20	10.81
Open Circuit Voltage (Voc, ± 5%) [V]	49.8	49.8	49.8	49.7	49.7	49.7	49.6	49.6	49.6	49.5	49.5	49.5
Short Circuit Current (Isc, ± 5%) [A]	10.26	10.88	11.51	10.22	10.85	11.48	10.18	10.81	11.46	10.14	10.78	11.43
Module Efficiency [%]	19.5	20.7	22.0	19.3	20.5	21.7	19.1	20.3	21.5	18.8	20.0	21.2
Pmax Bifaciality Coefficient [%]							70 ± 5					
Power Tolerance [%]							0 ~ +3					

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

Electrical Properties (NMOT)

Model	LG405N2T-J5			LG400N2T-J5			LG395N2T-J5			LG390N2T-J5		
	STC	BiFi100	BiFi200	STC	BiFi100	BiFi200	STC	BiFi100	BiFi200	STC	BiFi100	BiFi200
Maximum Power (Pmax) [W]	304	322	341	300	318	337	296	315	333	292	311	330
MPP Voltage (Vmpp) [V]	39.4	39.4	39.4	39.0	39.0	39.0	38.6	38.6	38.6	38.2	38.2	38.2
MPP Current (Impp) [A]	7.72	8.18	8.66	7.69	8.16	8.65	7.67	8.15	8.63	7.65	8.13	8.62
Open Circuit Voltage (Voc) [V]	47.0	47.0	47.0	46.9	46.9	46.9	46.8	46.8	46.8	46.7	46.7	46.7
Short Circuit Current (Isc) [A]	8.25	8.75	9.25	8.22	8.72	9.23	8.19	8.70	9.21	8.15	8.67	9.19

General Data

Cell Properties(Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	72 Cells (6 x 12)
Number of Busbars	12EA
Module Dimensions (L x W x H)	2,024mm x 1,024mm x 40 mm
Weight	20.3kg
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

Operating Conditions

Operating Temperature [°C]	-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 / 3,000Pa based on IEC 61215-2: 2016

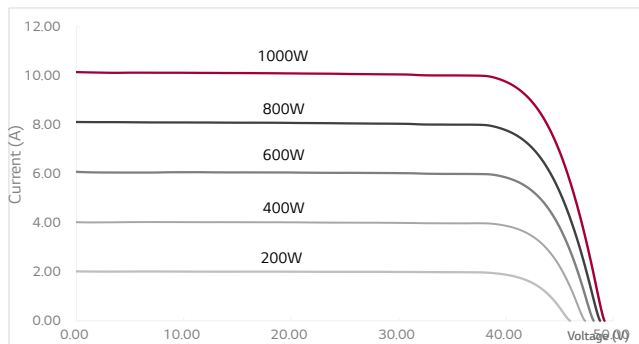
(Test Load = Design Load x Safety Factor(1.5))

Temperature Characteristics

NMOT* [°C]	42 ± 3
Pmax [%/°C]	-0.36
Voc [%/°C]	-0.26
Isc [%/°C]	0.03

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

I-V Curves



Certifications and Warranty

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 annual degradation, 95.4% for 25 years

* Based on STC maximum 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

Dimensions (mm / inch)

