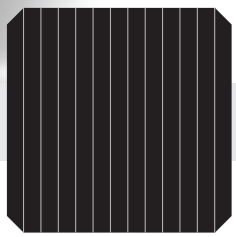
LG NeON®2 BiFacial

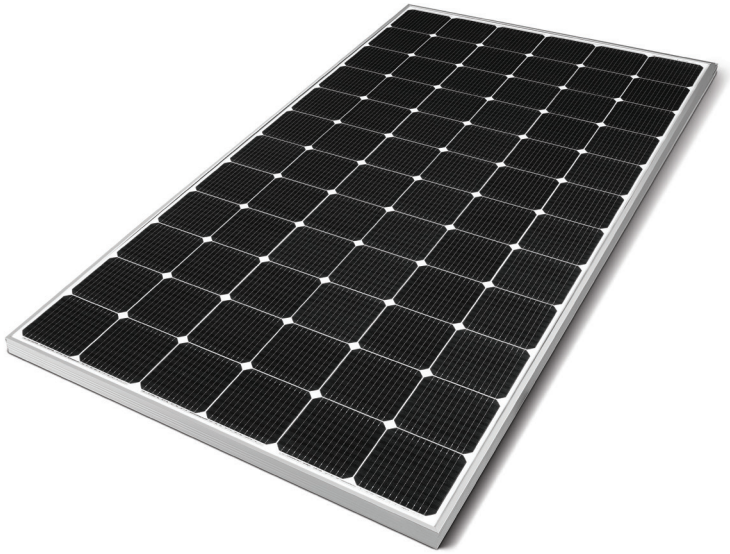


72

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

390W | 395W | 400W | 405W

The LG NeON® 2 BiFacial is designed to absorb sunlight from both the front and the rear sides of its NeON® cell due to a transparent backsheet. The dual faces of the cell are designed to increase energy generation.



Features

25-Year Product Warranty

NeON® 2 BiFacial modules are covered by a 25-year product warranty.

Bifacial Energy Yield

LG NeON® 2 BiFacial modules use highly efficient bifacial solar cells and highly efficient Cello Technology™. LG NeON® 2 BiFacials can achieve up to 27% more energy than standard monofacial PV modules.

Better Performance on Hot Days

An improved temperature coefficient means better performance on hot days.

Solid Performance on Cloudy Days

LG NeON® 2 BiFacials perform well on cloudy days due to their highly efficient technology.

When you go solar, ask for the brand you can trust: LG Solar

About LG Electronics

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. 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's leadership and innovation in the solar industry.

LG Solar

LG NeON®2 BiFacial

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

Electrical Properties

Model		LG390N2T-J5			LG395N2T-J5			LG400N2T-J5			LG405N2T-J5		
		STC*	BiFi100**	BiFi200**	STC*	BiFi100**	BiFi200**	STC*	BiFi100**	BiFi200**	STC*	BiFi100**	BiFi200**
Maximum Power (Pmax)	[W]	390	415	440	395	420	445	400	425	450	405	430	455
MPP Voltage (Vmpp)	[V]	40.7	40.7	40.7	41.1	41.1	41.1	41.5	41.5	41.5	41.9	41.9	41.9
MPP Current (Impp)	[A]	9.59	10.20	10.81	9.62	10.22	10.83	9.65	10.24	10.84	9.68	10.26	10.86
Open Circuit Voltage (Voc, ±5%)	[V]	49.5	49.5	49.5	49.6	49.6	49.6	49.7	49.7	49.7	49.8	49.8	49.8
Short Circuit Current (Isc, ±5%)	[A]	10.14	10.78	11.43	10.18	10.81	11.46	10.22	10.85	11.48	10.26	10.88	11.51
Module Efficiency	[%]	18.8	20.0	21.2	19.1	20.3	21.5	19.3	20.5	21.7	19.5	20.7	22.0
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		LG390N2T-J5			LG395N2T-J5			LG400N2T-J5			LG405N2T-J5		
		STC	BiFi100	BiFi200	STC	BiFi100	BiFi200	STC	BiFi100	BiFi200	STC	BiFi100	BiFi200
Maximum Power (Pmax)	[W]	292	311	330	296	315	333	300	318	337	304	322	341
MPP Voltage (Vmpp)	[V]	38.2	38.2	38.2	38.6	38.6	38.6	39.0	39.0	39.0	39.4	39.4	39.4
MPP Current (Impp)	[A]	7.65	8.13	8.62	7.67	8.15	8.63	7.69	8.16	8.65	7.72	8.18	8.66
Open Circuit Voltage (Voc)	[V]	46.7	46.7	46.7	46.8	46.8	46.8	46.9	46.9	46.9	47.0	47.0	47.0
Short Circuit Current (Isc)	[A]	8.15	8.67	9.19	8.19	8.70	9.21	8.22	8.72	9.23	8.25	8.75	9.25

General Data

Cell Properties (Material/Type)	Monocrystalline/N-type
Cell Maker	LG
Cell Configuration	72 Cells (6 x 10)
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

Temperature Characteristics

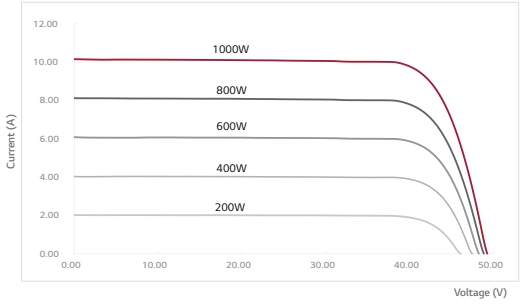
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.36
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.03

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

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	[°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

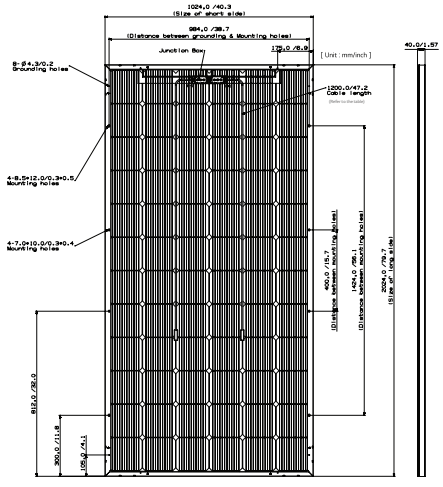
*Mechanical Test Load 5,400Pa/4,000Pa based on IEC 61215-2 : 2016
*Test Load = Design Load x Safety Factor (1.5)

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 (UL 790, ULC/ORD C 1703)
Solar Module Product Warranty	25 Years
Solar Module Output Warranty	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 maximum power

Dimensions (mm/inch)



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Product specifications are subject to change without notice.
LG390-405N2T-J5.pdf

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