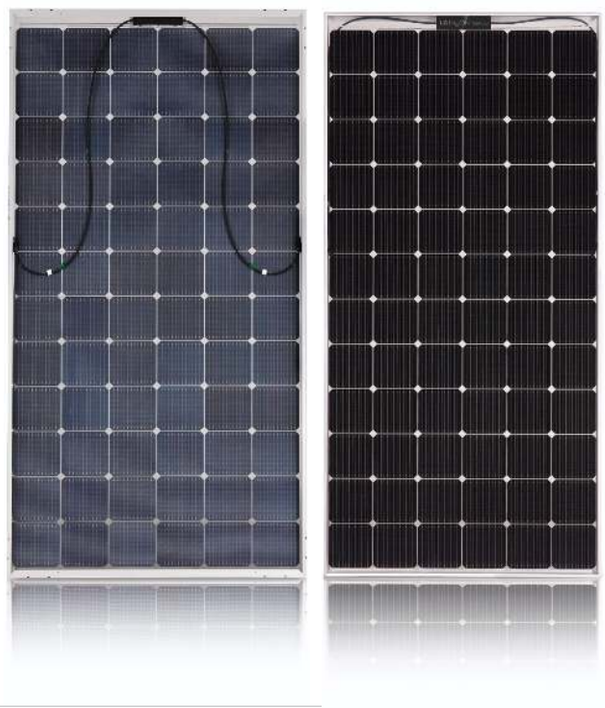
LG NeON® 2 BiFacial

LG395N2T-A5 | LG390N2T-A5

395W | 390W

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 86% 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 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.

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

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*

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Electrical Properties (STC*)

		LG395N2T - A5	Bifaical Gain**				LG390N2T - A5	Bifacial Gain**			
			5%	10%	20%	30%		5%	10%	20%	30%
Maximum Power (Pmax)	[W]	395	415	435	474	514	390	410	429	468	507
MPP Voltage (Vmpp)	[V]	41.8	41.8	41.8	41.9	41.9	41.4	41.4	41.4	41.5	41.5
MPP Current (Impp)	[A]	9.46	9.92	10.39	11.31	12.26	9.43	9.90	10.36	11.28	12.22
Open Circuit Voltage (Voc)	[V]	49.3	49.3	49.3	49.4	49.4	49.2	49.2	49.2	49.3	49.3
Short Circuit Current (Isc)	[A]	10.19	10.70	11.21	12.23	13.25	10.15	10.15	11.17	12.18	13.20
Module Efficiency	[%]	18.7	19.6	20.6	22.4	24.3	18.5	19.4	20.3	22.1	24.0
Operating Temperature	[°C]	-40 ~ +90									
Maximum System Voltage	[V]	1,500(UL) / 1,000(IEC)									
Maximum Series Fuse Rating	[A]	20									
Pmax Bifaciality Coefficient***	[%]	76									
Power Tolerance	[%]	0 ~ +3									

The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.
* STC (Standard Test Condition): Irradiance 1,000 W/m², cell temperature 25 °C, AM 1.5(Measurement Tolerance : ±3%, Electrical Parameter Tolerance : ±5%)
** 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.
*** Pmax Bifaciality Coefficient 25years warranty based on front output warranty. tolerance±7%

Mechanical Properties

Cells	6 x 12
Cell Type	Monocrystalline / N-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
# of Busbar	12(Multi Wire Busbar)
Dimensions (L x W x H)	2,064 x 1,024 x 40 mm
	81.26 x 40.31 x 1.57 in
Front Load	5,400 Pa / 113 psf*
Rear Load	4,300 Pa / 90 psf*
Weight	22.0 kg / 48.72 lb
Connector Type	MC4 (MC), PV-JM601A (JMTHY)
Junction Box	IP68 with 3 Bypass Diodes
Cables	1,200 mm x 2 ea / 47.24 in x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

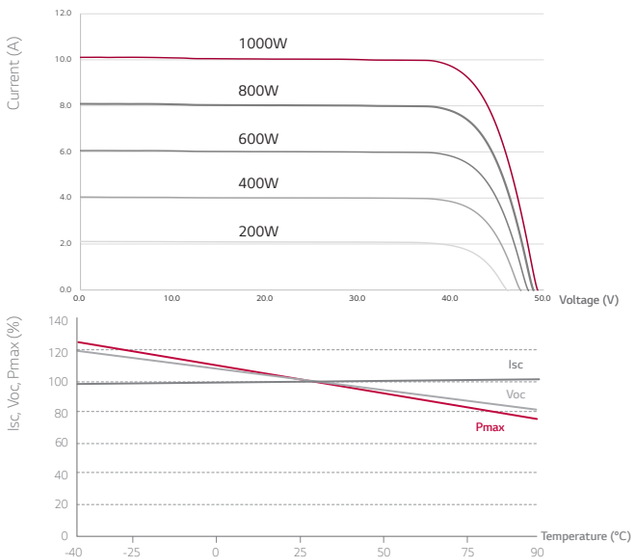
* Please refer to the installation manual for the details

Electrical Properties (NOCT*)

Model		LG395N2T-A5	LG390N2T-A5
Maximum Power (Pmax)	[W]	292	289
MPP Voltage (Vmpp)	[V]	38.7	38.3
MPP Current (Impp)	[A]	7.55	7.54
Open Circuit Voltage (Voc)	[V]	46.0	45.9
Short Circuit Current (Isc)	[A]	8.20	8.17

* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

Characteristic Curves



Certifications and Warranty

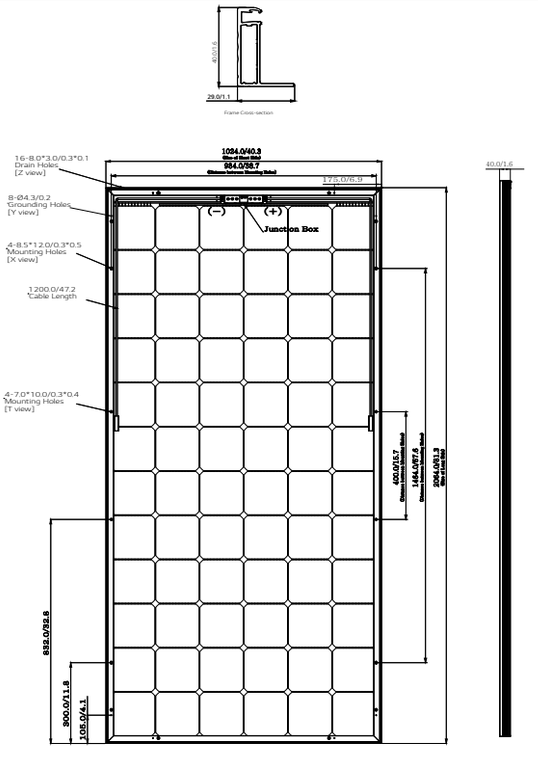
Certifications	UL 1703
	IEC 61215, IEC 61730-1/-2
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
	ISO 9001
Module Fire Performance	Type 1(UL 1703)
Fire Resistance Class	Class C (ULC/ORD C1703, IEC 61730)
Product Warranty	15 Years
Output Warranty of Pmax	Linear Warranty*

* 1) 1st year: 98%, 2) After 1st year: 0.5% annual degradation, 3) 86% for 25 years

Temperature Characteristics

NOCT	[°C]	45 ± 3
Pmax	[%/°C]	-0.36
Voc	[%/°C]	-0.27
Isc	[%/°C]	0.03

Dimensions (mm / inch)



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

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Product specifications are subject to change without notice.
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