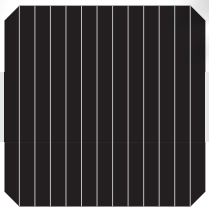
LG NeON®2 BiFacial

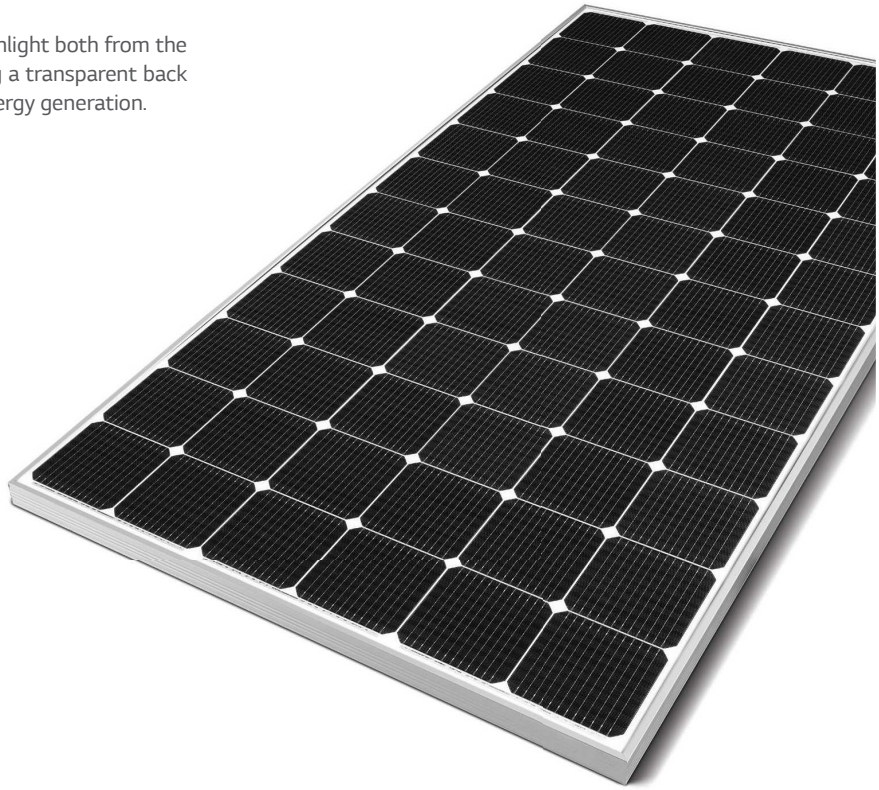


72

LG410N2T-V5 | LG405N2T-V5 | LG400N2T-V5

410W | 405W | 400W

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 back sheet. The dual faces of the cell result in higher energy generation.



In Progress | In Progress | In Progress | In Progress

Features

More Generation on Cloudy Days

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

Increased 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 Days

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

Enhanced Product Warranty

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

LG NeON®2 BiFacial

Preliminary

LG410N2T-V5 | LG405N2T-V5 | LG400N2T-V5

General Data

Cell Properties (Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	72 Cells (6 x 12)
Number of Busbar	12 EA
Module Dimensions (L x W x H)	2,024 mm x 1,024 mm x 40 mm
Weight	20.3 kg
Glass (Thickness / Material)	2.8 mm / 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)	MC4 / MC

Temperature Characteristics

NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.36
Voc	[%/°C]	-0.27
Isc	[%/°C]	0.03

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

Electrical Properties

Model		LG410N2T-V5			LG405N2T-V5			LG400N2T-V5		
		STC	BiFi100 **	BiFi200 **	STC	BiFi100 **	BiFi200 **	STC *	BiFi100 **	BiFi200 **
Maximum Power(Pmax)	[W]	410	435	460	405	430	455	400	425	450
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]	9.71	10.28	10.87	9.68	10.26	10.86	9.65	10.24	10.84
Open Circuit Voltage (Voc, ± 5%)	[V]	49.9	49.9	49.9	49.8	49.8	49.8	49.7	49.7	49.7
Short Circuit Current (Isc, ± 5%)	[A]	10.30	10.91	11.54	10.26	10.88	11.51	10.22	10.85	11.48
Module Efficiency	[%]	19.8	21.0	22.2	19.5	20.7	22.0	19.3	20.5	21.7
Pmax Bifaciality Coefficient	[%]	70 ± 5								
Power Tolerance	[%]	0 ~ +3								

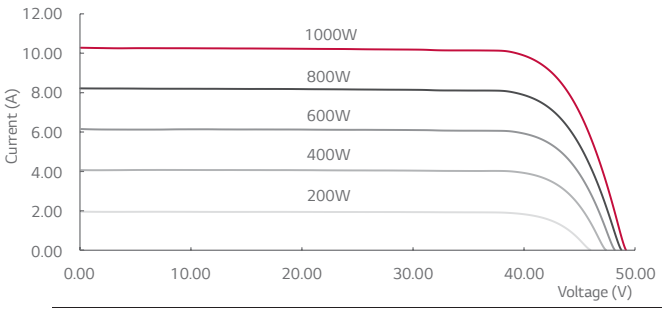
* STC (Standard Test Condition) : Irradiance 1000W/m2, Cell temperature 25℃, AM 1.5 , Measure Tolerance : ±3%

** 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		LG410N2T-V5			LG405N2T-V5			LG400N2T-V5		
		STC	BiFi100	BiFi200	STC	BiFi100	BiFi200	STC	BiFi100	BiFi200
Maximum Power (Pmax)	[W]	308	326	345	304	322	341	300	318	337
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]	7.74	8.20	8.67	7.72	8.18	8.66	7.69	8.16	8.65
Open Circuit Voltage (Voc)	[V]	47.1	47.1	47.1	47.0	47.0	47.0	46.9	46.9	46.9
Short Circuit Current (Isc)	[A]	8.28	8.77	9.28	8.25	8.75	9.25	8.22	8.72	9.23

I-V Curves



Certifications and Warranty

Certifications	IEC 61215-1/-1-1 / 2:2016[1], IEC 61730-1/2:2016[1], UL 1703[1]
	ISO 9001, ISO 14001, ISO 50001
	OHSAS 18001
Salt Mist Corrosion Test	IEC 61701:2012 Severity 6 [1]
Ammonia Corrosion Test	IEC 62716:2013 [1]
Module Fire Performance	Type 1 (UL 1703) [1]
Fire Rating	Class C (UL 790) [1]
Product Warranty	25 Years
Output Warranty of Pmax	Linear Warranty*

1) In progress
* TBD

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

* Test Load = Design Load x Safety Factor (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

Dimensions (mm / inch)