

# LG NeON™ 2 BiFacial

LG300N1T-G4

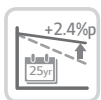
## 60 cell

LG NeON™ 2 BiFacial is designed to utilize both sides of PV module for absorbing more light and generating more energy. It also adopts Cello technology which replaces 3 busbars with 12 thin wires to enhance power output and reliability. It is possible to produce an abundance of output energy with LG NeON™ 2 BiFacial.



- Cello Technology  
- Transparent backsheet

### Key Features



#### Enhanced Performance Warranty

LG NeON™ 2 BiFacial has an enhanced performance warranty. The annual degradation has fallen to 0.6%/yr from 0.7%/yr of the previous LG NeON™ module.



#### Better Performance on a Sunny Day

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



#### High Power Output

LG NeON™ 2 BiFacial has been designed using LG's new Cello technology which is able to achieve high rear efficiency cell over 92.5% based on front efficiency.



#### Bifacial Energy Yield

It is possible to produce 25% more energy and output energy can be increased more under optimized surrounding conditions.



#### 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.



#### 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) and The NeON™2 won the "Inter-solar AWARD" in 2013 and 2015, which demonstrates LG Solar's lead, innovation and commitment to the industry.

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# LG NeON™ 2BiFacial

## Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	156.75 x 156.75 mm / 6 inches
# of Busbar	12 (Multi Wire Busbar)
Dimensions (L x W x H)	1640 x 1000 x 40 mm
Front Load	6000 Pa
Rear Load	5400 Pa
Weight	17.0 ± 0.5 kg
Connector Type	MC4
Junction Box	IP67 with 3 Bypass Diodes
Length of Cables	1000 mm x 2ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

## Certifications and Warranty

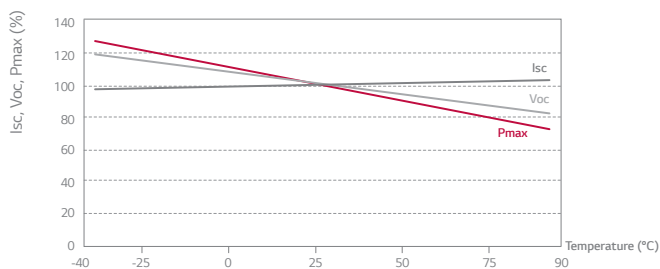
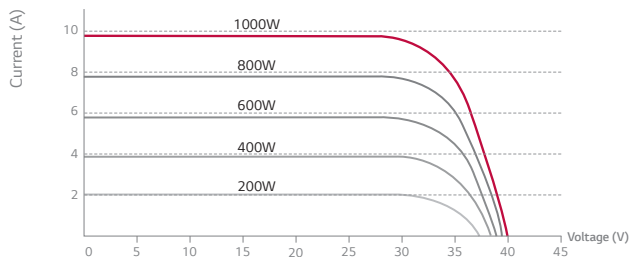
Certifications	IEC 61215, IEC 61730-1/-2
	IEC 62716 (Ammonia corrosion test)
	IEC 61701 (Salt mist corrosion test)
	ISO 9001
Fire Rating	Class C
Product Warranty	12 Years
Output Warranty of Pmax	Linear Warranty <sup>1</sup>

<sup>1</sup>) 1st year: 98%, 2) After 2nd year: 0.6% annual degradation, 3) 83.6% for 25 years

## Temperature Characteristics

NOCT	[ °C ]	45 ± 3
Pmax	[%/°C]	-0.38
Voc	[%/°C]	-0.28
Isc	[%/°C]	0.03

## Characteristic Curves



## Electrical Properties (STC<sup>2</sup>)

Module	LG300N1T-G4	Bifacial Gain			
		10%	20%	25%	
Maximum Power (Pmax)	[W]	300	330	360	375
MPP Voltage (Vmpp)	[V]	32.9	32.9	32.9	33.0
MPP Current (Impp)	[A]	9.15	10.07	10.98	11.44
Open Circuit Voltage (Voc)	[V]	40.1	40.1	40.2	40.3
Short Circuit Current (Isc)	[A]	9.65	10.68	11.65	12.14
Module Efficiency	[%]	18.3	20.1	22.0	22.9
Operating Temperature	[°C]	-40 ~ +90			
Maximum System Voltage	[V]	1000			
Maximum Series Fuse Rating	[A]	20			
Power Tolerance (%)	[%]	0 ~ +3			

<sup>2</sup> STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, Module Temperature 25 °C, AM 1.5

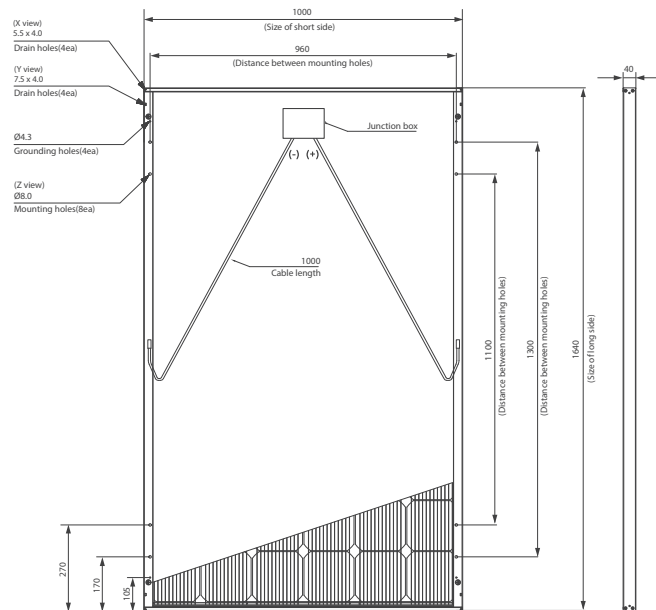
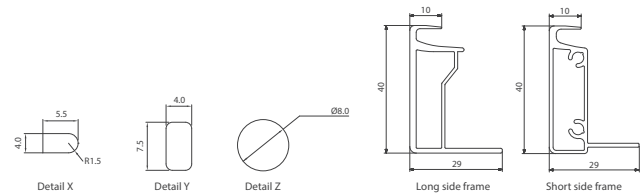
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

## Electrical Properties (NOCT<sup>3</sup>)

Module	LG300N1T-G4	
Maximum Power (Pmax)	[W]	221.9
MPP Voltage (Vmpp)	[V]	30.4
MPP Current (Impp)	[A]	7.29
Open Circuit Voltage (Voc)	[V]	37.3
Short Circuit Current (Isc)	[A]	7.77

<sup>3</sup> NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m<sup>2</sup>, module temperature 20 °C, wind speed 1 m/s

## Dimensions (mm)



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

