EN

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 adoptsCello 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.

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.

Bifacial Energy Yield

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

Better Performance on a Sunny Day

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

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.

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.

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.

LG Life's Good

LG300N1T-G4

LG NeON™ 2 BiFacial

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

Electrical Properties (STC²)

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			

² STC (Standard Test Condition): Irradiance 1000 W/m², Module Temperature 25 °C, AM 1.5
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

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[1]

[1] 1) 1st year: 98%, 2) After 2nd year: 0.6%p annual degradation, 3) 83.6% for 25 years

Electrical Properties (NOCT³)

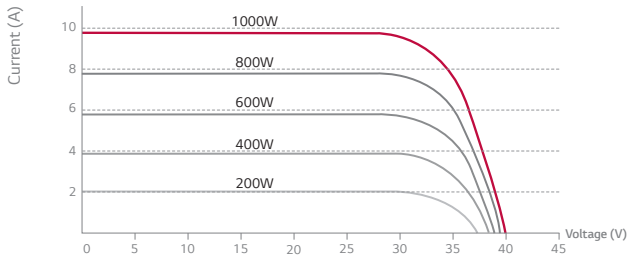
Module		LG300N1T-G4
Maximum Power (Pmax)	[W]	221.9
MPP Voltage (Vmpp)	[V]	30.4
MPP Current (Impp)	[A]	7.29
Open Circuit Voltage (Voc)	[V]	37.3
Short Circuit Current (Isc)	[A]	7.77

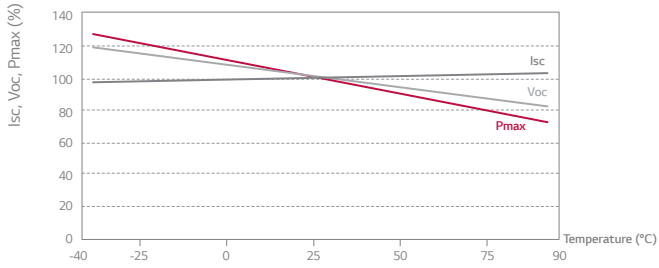
³ NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², module temperature 20 °C, wind speed 1 m/s

Temperature Characteristics

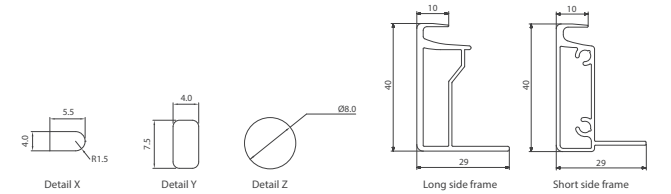
NOCT	[°C]	45 ± 3
Pmax	[%/°C]	-0.38
Voc	[%/°C]	-0.28
Isc	[%/°C]	0.03

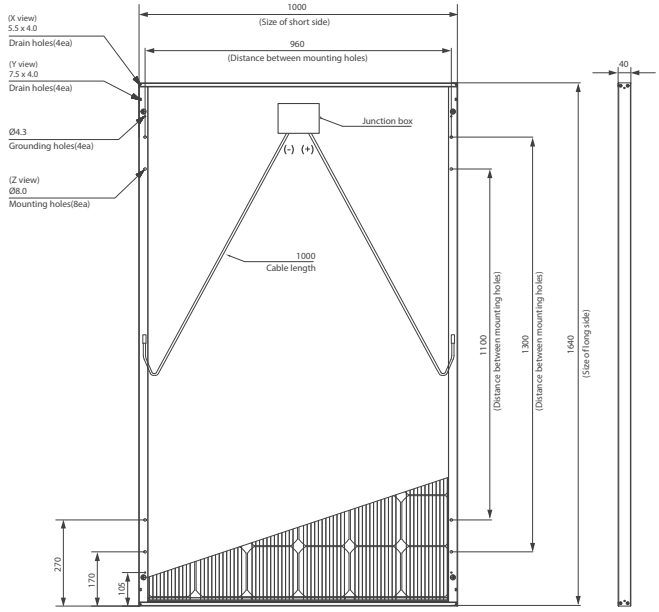
Characteristic Curves





Dimensions (mm)





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

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