

LG NeON™ 2 BiFacial

LG300N1T-G4

60 cell

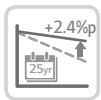
LG NeON™ 2 BiFacial is designed to utilize both sides of PV module for absorbing more light and generating more energy. It also adopts Cello technology which replaces 3 busbars with 12 thin wires to enhance power output and reliability. It is possible to produce an abundance of output energy with LG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

LG300N1T-G4

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

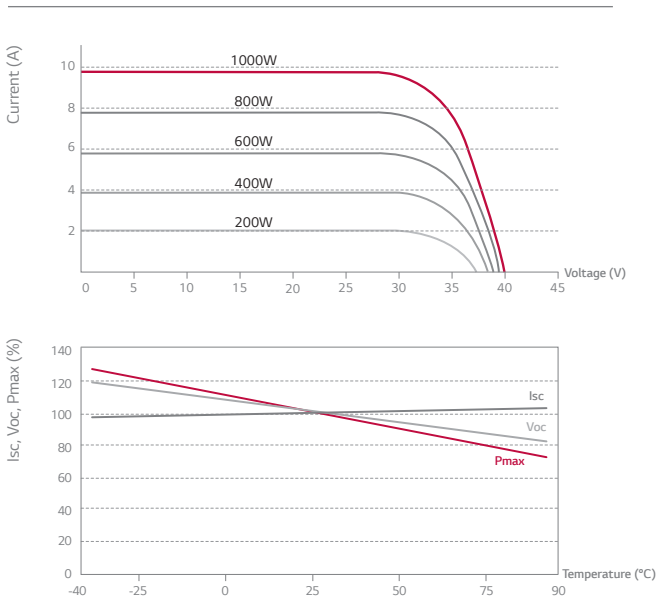
| | |
|-------------------------|--------------------------------------|
| Certifications | IEC 61215, IEC 61730-1/-2 |
| | IEC 62716 (Ammonia corrosion test) |
| | IEC 61701 (Salt mist corrosion test) |
| | ISO 9001 |
| Fire Rating | Class C |
| Product Warranty | 12 Years |
| Output Warranty of Pmax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

¹) 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 (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 | | | |

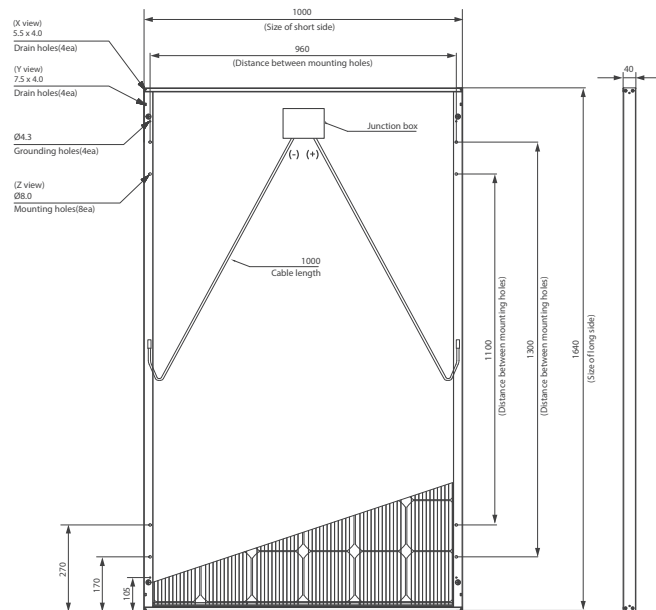
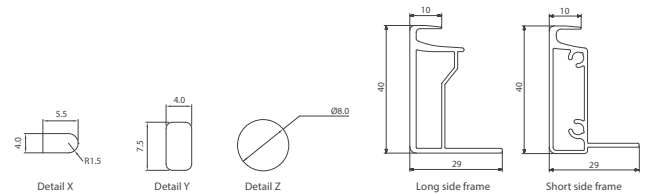
² STC (Standard Test Condition): Irradiance 1000 W/m², Module Temperature 25 °C, AM 1.5
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

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

Dimensions (mm)



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

