



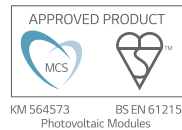
Innovation for a Better Life



LG NeON™ 2 **LG320N1C-G4** **LG315N1C-G4** **LG310N1C-G4** **LG305N1C-G4**

60 cell

LG's new module, NeON™ 2, adopts Cello technology. Cello technology replaces 3 busbars with 12 thin wires to enhance power output and reliability. NeON™ 2 demonstrates LG's efforts to increase customer's values beyond efficiency. It features enhanced warranty, durability, performance under real environment, and aesthetic design suitable for roofs.



Enhanced Performance Warranty

LG NeON™ 2 has an enhanced performance warranty. The annual degradation has fallen from -0.7%/yr to -0.6%/yr. Even after 25 years, the cell guarantees 2.4% more output than the previous NeON™ modules.



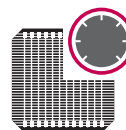
High Power Output

Compared with previous models, the LG NeON™ 2 has been designed to significantly enhance its output efficiency, thereby making it efficient even in limited space.



Aesthetic Roof

LG NeON™ 2 has been designed with aesthetics in mind; thinner wires that appear all black at a distance. The product may increase the value of a property with its modern design.



Outstanding Durability

With its newly reinforced frame design, LG has extended the warranty of the NeON™ 2 for an additional 2 years. Additionally, LG NeON™ 2 can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.



Better Performance on a Sunny Day

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



Double-Sided Cell Structure

The rear of the cell used in LG NeON™ 2 will contribute to generation, just like the front; the light beam reflected from the rear of the module is reabsorbed to generate a great amount of additional power.

About LG Electronics

LG Electronics is a global player who has been committed to expanding its capacity, based on solar energy business as its future growth engine. We embarked on a solar energy source research program in 1985, supported by LG Group's rich experience in semi-conductor, LCD, chemistry, and materials industry. We successfully released the first Mono X® series to the market in 2010, which were exported to 32 countries in the following 2 years, thereafter. In 2013, NeON™ (previously known as Mono X® NeON) won "Intersola Award", which proved LG is the leader of innovation in the industry.

Mechanical Properties

| | |
|------------------------|--|
| Cells | 6 x 10 |
| Cell Vendor | LG |
| Cell Type | Monocrystalline / N-type |
| Cell Dimensions | 156.75 x 156.75 mm / 6 x 6 inch |
| # of Busbar | 12 (Multi Wire Busbar) |
| Dimensions (L x W x H) | 1640 x 1000 x 40 mm 64.57 x 39.37 x 1.57 inch |
| Front Load | 6000 Pa / 125 psf |
| Rear Load | 5400 Pa / 113 psf |
| Weight | 17.0 ± 0.5 kg / 37.48 ± 1.1 lbs |
| Connector Type | MC4, MC4 Compatible, IP67 |
| Junction Box | IP67 with 3 Bypass Diodes |
| Length of Cables | 2 x 1000 mm / 2 x 39.37 inch |
| Glass | High Transmission Tempered Glass |
| Frame | Anodized Aluminum |

Certifications and Warranty

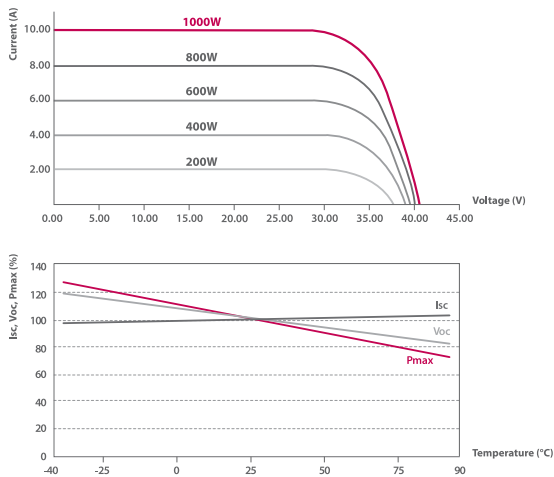
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|---|--|
| Certifications (In Progress) | IEC 61215, IEC 61730-1/-2, UL 1703, ISO 9001, IEC 62716 (Ammonia Test), IEC 61701 (Salt Mist Corrosion Test) |
| Module Fire Performance | Type 2 (UL 1703) |
| Product Warranty | 12 years |
| Output warranty of Pmax (measurement Tolerance %) | Linear warranty* |

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

Temperature Coefficients

| | |
|------|------------|
| NOCT | 46 ± 3 °C |
| Pmpp | -0.38 %/°C |
| Voc | -0.28 %/°C |
| Isc | 0.03 %/°C |

Characteristic Curves



Electrical Properties (STC *)

| | 320 W | 315 W | 310 W | 305 W |
|--------------------------------|-----------|-------|-------|-------|
| MPP Voltage (Vmpp) | 33.6 | 33.2 | 32.8 | 32.5 |
| MPP Current (Impp) | 9.53 | 9.50 | 9.45 | 9.39 |
| Open Circuit Voltage (Voc) | 40.9 | 40.6 | 40.4 | 40.1 |
| Short Circuit Current (Isc) | 10.05 | 10.02 | 9.96 | 9.93 |
| Module Efficiency (%) | 19.5 | 19.2 | 18.9 | 18.6 |
| Operating Temperature (°C) | -40 ~ +90 | | | |
| Maximum System Voltage (V) | 1000 | | | |
| Maximum Series Fuse Rating (A) | 20 | | | |
| Power Tolerance (%) | 0 ~ +3 | | | |

* 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.

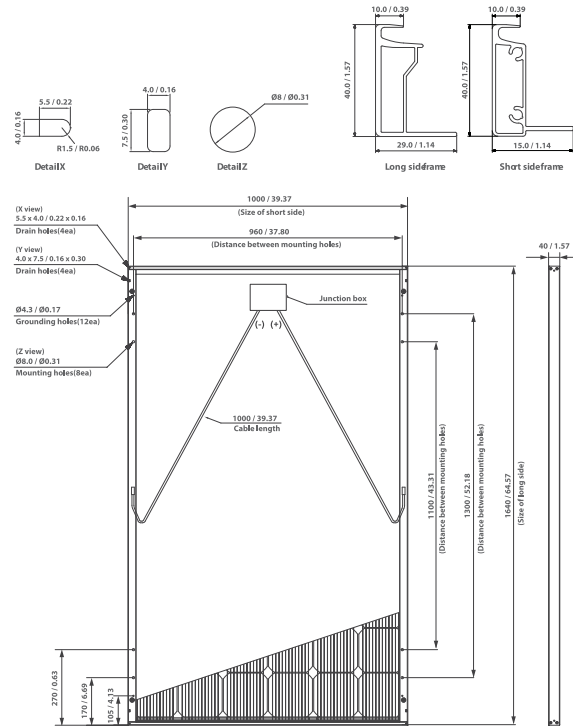
* The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -2.0%.

Electrical Properties (NOCT*)

| | 320 W | 315 W | 310 W | 305 W |
|-----------------------------|-------|-------|-------|-------|
| Maximum Power (Pmpp) | 234 | 230 | 226 | 223 |
| MPP Voltage (Vmpp) | 30.7 | 30.4 | 30.0 | 29.7 |
| MPP Current (Impp) | 7.60 | 7.58 | 7.54 | 7.49 |
| Open Circuit Voltage (Voc) | 37.9 | 37.6 | 37.4 | 37.1 |
| Short Circuit Current (Isc) | 8.10 | 8.08 | 8.03 | 8.01 |

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

Dimensions (mm/in)



* 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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