

LG NeON[®] 2 **LG330N1C-A5**

60 cell

LG's NeON[®] 2 module adopts Cello Technology™. Cello Technology™ replaces 3 busbars with 12 thin wires to enhance power output and reliability. The NeON[®] 2 demonstrates LG's efforts to increase customer value through efficiency, enhanced warranties, durability and performance.



Enhanced Performance Warranty

LG NeON[®] 2 has an enhanced performance warranty. The annual degradation has fallen from -0.6%/yr to -0.5%/yr. Even after 25 years, the cell guarantees 2.4% more output than the previous LG NeON[®] 2 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.



Roof Aesthetics

LG NeON[®] 2 has been designed with aesthetics in mind, using thinner wires that appear all black at a distance.



Outstanding Durability

With its newly reinforced frame design, LG has extended the warranty of the LG NeON[®] 2 for an additional 3 years. Additionally, LG NeON[®] 2 can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.



Improved Performance on Sunny Days

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 the LG NeON[®] 2 contributes to generation, just like the front; the light beam reflected from the rear of the module is reabsorbed to generate additional power.

About LG Electronics

LG Electronics is a global player who has been committed to expanding its operations with the solar market. The company first embarked on a solar energy source research programs 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 Mono X[®] series to the market, which is now available in 32 countries. The LG NeON™ (previously known as Mono X[®] NeON) and the LG NeON™ 2 won the "Intersolar Award" in 2013 and 2015, which demonstrates LG Solar's lead, innovations and commitment to the industry.

Mechanical Properties

| | |
|------------------------|---|
| Cells | 6 x 10 |
| Cell Vendor | LG |
| Cell Type | Monocrystalline / N-type |
| Cell Dimensions | 161.7 x 161.7 mm / 6 inches |
| # of Busbar | 12 (Multi Wire Busbar) |
| Dimensions (L x W x H) | 1686 x 1016 x 40 mm 66.38 x 40 x 1.57 inch |
| Front Load | 6000Pa |
| Rear Load | 5400Pa |
| Weight | 18 kg |
| Connector Type | MC4 |
| Junction Box | IP68 with 3 Bypass Diodes |
| Cables | 1000 mm x 2 ea |
| Glass | Tempered Glass with AR Coating |
| Frame | Anodized Aluminium |

Certifications and Warranty

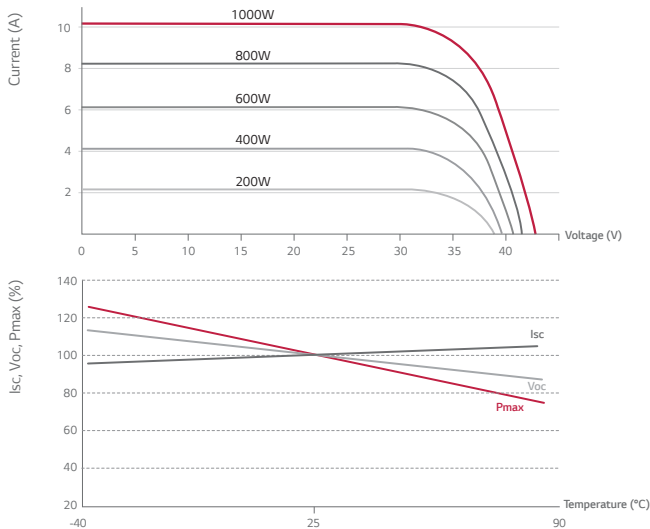
| | |
|-------------------------------|--|
| Certifications | IEC 61215, IEC 61730-1/-2 UL 1703 IEC 61701 (Salt mist corrosion test) IEC 62716 (Ammonia corrosion test) ISO 9001 |
| Module Fire Performance (USA) | Type 1 |
| Fire Rating (CANADA) | Class C (ULC / ORD C1703) |
| Product Warranty | 25 years |
| Output Warranty of Pmax | Linear warranty** |

** 1) 1st year : 98%, 2) After 1st year : 0.5% annual degradation, 3) 25 years : 86%

Temperature Characteristics

| | |
|------|-----------|
| NOCT | 45 ± 3 °C |
| Pmpp | -0.37%/°C |
| Voc | -0.27%/°C |
| Isc | 0.03 %/°C |

Characteristic Curves



Electrical Properties (STC *)

| Module | LG330N1C-A5 |
|-----------------------------|-------------|
| Maximum Power (Pmax) | 330 |
| MPP Voltage (Vmpp) | 33.7 |
| MPP Current (Impp) | 9.8 |
| Open Circuit Voltage (Voc) | 40.9 |
| Short Circuit Current (Isc) | 10.45 |
| Module Efficiency | 19.3 |
| Operating Temperature | -40 ~ +90 |
| Maximum System Voltage | 1,000 |
| Maximum Series Fuse Rating | 20 |
| Power Tolerance (%) | 0 ~ +3 |

* STC (Standard Test Condition): Irradiance 1,000 W/m², Cell 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 200W/m² in relation to 1000W/m² is -2.0%.

Electrical Properties (NOCT*)

| Module | LG330N1C-A5 |
|-----------------------------|-------------|
| Maximum Power (Pmax) | 243 |
| MPP Voltage (Vmpp) | 31.2 |
| MPP Current (Impp) | 7.81 |
| Open Circuit Voltage (Voc) | 38.1 |
| Short Circuit Current (Isc) | 8.41 |

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

Dimensions (mm/in)

