LG NeON® 2 Black

320W

The LG NeON® 2 is LG’s best selling solar module, and is one of the most powerful and versatile modules on the market today. Featuring LG’s Cello Technology, the LG NeON® 2 increases power output. New updates include an extended performance warranty from 86% to 90.08% to give customers higher performance and reliability.

Features

- **Enhanced Performance Warranty**
  LG NeON® 2 Black has an enhanced performance warranty. After 25 years, LG NeON® 2 Black is guaranteed at least 90.08% of initial performance.

- **Solid Performance on Hot Days**
  LG NeON® 2 Black performs well on hot days due to its low temperature coefficient.

- **25-Year Limited Product Warranty**
  The NeON® 2 Black is covered by a 25-year limited product warranty. In addition, up to $450 of labor costs will be covered in the rare case that a module needs to be repaired or replaced.

- **Roof Aesthetics**
  LG NeON® 2 Black has been designed with aesthetics in mind using thinner wires that appear all black at a distance.

- **Bifacial Energy Yield**
  LG NeON® 2 modules use a highly efficient bifacial solar cell, “NeON” applied Cello technology for better energy production than standard monofacial PV module.

When you go solar, ask for the brand you can trust: LG Solar

**About LG Electronics USA, Inc.**

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. 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), NeON®2, NeON®2 Bifacial won the “Intersolar AWARD” in 2013, 2015 and 2016, which demonstrates LG’s leadership and innovation in the solar industry.
LG NeON®2 Black

LG320N1K-V5

General Data

Cell Properties (Material/Type) | Monocrystalline/N-type
---|---
Cell Maker | LG
Cell Configuration | 60 Cells (6 x 10)
Number of Busbars | 12EA
Module Dimensions (L x W x H) | 1,686mm x 1,016mm x 40 mm
Weight | 17.1 kg
Glass (Material) | Tempered Glass with AR Coating
Backsheet (Color) | Black
Frame (Material) | Anodized Aluminium
Junction Box (Protection Degree) | IP 68 with 3 Bypass Diodes
Cables (Length) | 1,000mm x 2EA
Connector (Type/Maker) | MC 4/MC

Certifications and Warranty

Certifications | IEC 61215-1/-1/-1/-1-2:2016, IEC 61730-1/-2:2016, UL 1703
---|---
ISO 9001, ISO 14001, ISO 50001
GHSAS 18001
Salt Mist Corrosion Test | IEC 62701:2012 Severity 6
Ammonia Corrosion Test | IEC 62716:2013
Module Fire Performance | Type 2 (UL 1703)
Fire Rating | Class C (UL 790, ULC/ORD C 1703)
Solar Module Product Warranty | 25 Year Limited
Solar Module Output Warranty | Linear Warranty

*Improved: 1st year 98%, from 2-24th year: 0.33%/year down, 90.08% at year 25

Temperature Characteristics

NMOT* | [°C] 42 ± 3
Pmax | [%/°C] -0.36
Voc | [%/°C] -0.27
Isc | [%/°C] 0.03

*NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², Ambient temperature 20°C, Wind speed 1 m/s, Spectrum AM 1.5

Electrical Properties (NMOT)

Model | LG320N1K-V5
---|---
Maximum Power (Pmax) | [W] 239
MPP Voltage (Vmpp) | [V] 31.2
MPP Current (Impp) | [A] 7.67
Open Circuit Voltage (Voc) | [V] 38.3
Short Circuit Current (Isc) | [A] 8.19

I-V Curves

[Graph of I-V Curves]

Packaging Configuration

Number of Modules per Pallet | [EA] 25
Number of Modules per 40’ Container | [EA] 1,000
Number of Modules per 53’ Container | [EA] 1,000
Packaging Box Dimensions (L x W x H) | [mm] 1750 x 1,120 x 1,221
Packaging Box Dimensions (L x W x H) | [in] 69 x 44.25 x 48.25
Packaging Box Gross Weight | [kg] 485
Packaging Box Gross Weight | [lb] 1,070

Dimensions (mm/inch)

[Diagram of Module Dimensions]

Operating Conditions

Operating Temperature | [°C] -40 ~ +90
Maximum System Voltage | [V] 1,000(UL), 1000(IEC)
Maximum Series Fuse Rating | [A] 20
Mechanical Test Load (Front) | [Pa/psf] 5,400/113
Mechanical Test Load (Rear) | [Pa/psf] 4,000/84

*Test Load + Design load + Safety Factor (1.5)

Electrical Properties (STC*)

Model | LG320N1K-V5
---|---
Maximum Power (Pmax) | [W] 320
MPP Voltage (Vmpp) | [V] 33.3
MPP Current (Impp) | [A] 9.62
Open Circuit Voltage (Voc ± 5%) | [V] 40.8
Short Circuit Current (Isc ± 5%) | [A] 10.19
Module Efficiency | [%] 18.7
Bifacility Coefficient of Power | [%] 10
Power Tolerance | [%] 0 ~ +3

*STC (Standard Test Condition): Irradiance 1000 W/m², cell temperature 25°C, AM 1.5

Certifications and Warranty

IEC 61215-1/-1/-1/-1-2:2016, IEC 61730-1/-2:2016, UL 1703
ISO 9001, ISO 14001, ISO 50001
GHSAS 18001
Salt Mist Corrosion Test | IEC 62701:2012 Severity 6
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Product specifications are subject to change without notice. LG320N1K-V5.pdf
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