

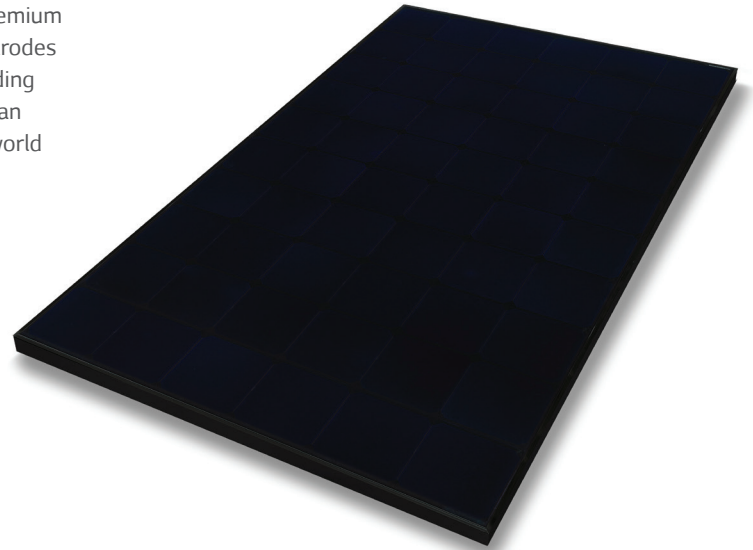
LG NeON[®]R Prime

LG385Q1K-A6

60

385W

LG Solar's NeON[®]R Prime is a powerful solar module that provides premium performance. The NeON[®]R incorporates a cell structure without electrodes on the front to maximize light utilization and enhance reliability. Providing added value for the customer beyond efficiency, this module features an enhanced warranty, outstanding durability, solid performance in real-world conditions and aesthetic design suitable for roofs.



Features



Roof Aesthetics

LG NeON[®]R has been designed with aesthetics in mind: the lack of any electrodes on the front creates an improved, modern aesthetic.



25-Year Limited Product Warranty

The NeON[®]R 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.



Enhanced Performance Warranty

LG NeON[®]R has an enhanced performance warranty. After 25 years, LG NeON[®]R is guaranteed at least 92.5% of initial performance.



More Generation Per Square Meter

The LG NeON[®]R has been designed to significantly enhance its output, making it efficient even in limited space.

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[®]R Prime

LG385Q1K-A6

General Data

| | |
|----------------------------------|--------------------------------|
| Cell Properties (Material/Type) | Monocrystalline/N-type |
| Cell Maker | LG |
| Cell Configuration | 60 Cells (6 x 10) |
| Module Dimensions (L x W x H) | 1,740mm x 1,042mm x 40mm |
| Weight | 18.5 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) | 1,250mm x 2EA |
| Connector (Type/Maker) | MC 4/MC |

Certifications and Warranty

| | |
|--------------------------|---|
| Certifications* | IEC 61215-1/-1-1/2 : 2016, IEC 61730-1/2 : 2016, UL 61730-1 : 2017, UL 61730-2 : 2017 |
| | ISO 9001, ISO 14001, ISO 50001 |
| | OHSAS 18001 |
| Salt Mist Corrosion Test | IEC 61701:2012 Severity 6 |
| Ammonia Corrosion Test | IEC 62716:2013 |
| Module Fire Performance | Type 2 (UL 61730) |
| Fire Rating | Class C (UL 790, ULC/ORD C 1703) |
| Product Warranty | 25 Years |
| Output Warranty of Pmax | Linear Warranty* |

*Improved: 1st year 98.5%, from 2-24th year: 0.25%/year down, 92.5% at year 25

Temperature Characteristics

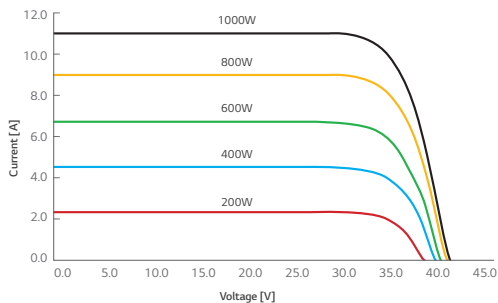
| | | |
|-------|--------|--------|
| NMOT* | [°C] | 44 ± 3 |
| Pmax | [%/°C] | -0.29 |
| Voc | [%/°C] | -0.24 |
| Isc | [%/°C] | 0.04 |

*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 | LG385Q1K-A6 | |
|-----------------------------|-------------|------|
| Maximum Power (Pmax) | [W] | 292 |
| MPP Voltage (Vmpp) | [V] | 35.3 |
| MPP Current (Impp) | [A] | 8.26 |
| Open Circuit Voltage (Voc) | [V] | 41.7 |
| Short Circuit Current (Isc) | [A] | 8.76 |

I-V Curves



Electrical Properties (STC*)

| Model | LG385Q1K-A6 | |
|-----------------------------------|-------------|--------|
| Maximum Power (Pmax) | [W] | 385 |
| MPP Voltage (Vmpp) | [V] | 37.4 |
| MPP Current (Impp) | [A] | 10.30 |
| Open Circuit Voltage (Voc, ± 5%) | [V] | 43.7 |
| Short Circuit Current (Isc, ± 5%) | [A] | 10.86 |
| Module Efficiency | [%] | 21.2 |
| Power Tolerance | [%] | 0 ~ +3 |

*STC (Standard Test Condition): Irradiance 1000 W/m², cell temperature 25°C, AM 1.5 Measure Tolerance: ± 3%

Operating Conditions

| | | |
|--------------------------------|----------|-----------|
| Operating Temperature* | [°C] | -40 ~ +85 |
| Maximum System Voltage | [V] | 1,000 |
| Maximum Series Fuse Rating | [A] | 20 |
| Mechanical Test Load** (Front) | [Pa/psf] | 5,400 |
| Mechanical Test Load** (Rear) | [Pa/psf] | 4,000 |

*The operating ambient temperature of these devices may exceed 40°C at full load for all wire sizes if is determined suitable in the field use application.

**Based on IEC 61215-2 : 2016 (Test Load = Design Load x Safety Factor (1.5))

Packaging Configuration

| | | |
|--------------------------------------|------|-----------------------|
| Number of Modules per Pallet | [EA] | 25 |
| Number of Modules per 40' Container | [EA] | 650 |
| Number of Modules per 53' Container | [EA] | 850 |
| Packaging Box Dimensions (L x W x H) | [mm] | 1,790 x 1,120 x 1,227 |
| Packaging Box Dimensions (L x W x H) | [in] | 70.5 x 44.1 x 48.3 |
| Packaging Box Gross Weight | [kg] | 498 |
| Packaging Box Gross Weight | [lb] | 1,098 |

Dimensions (mm/inch)

