# LG NeON<sup>®</sup> 2 Black ACe

### LG320E1K-A5

## 320W

The LG NeON<sup>®</sup> 2 Black ACe is embedded AC module, which combines LG NeON<sup>®</sup> 2 Black high power DC module and Enphase Micro inverter IQ6+. As they are combined, LG NeON<sup>®</sup> 2 Black ACe can simplify all the processes such as logistics, installation, and monitoring.







60

### Feature



### High Power Output

The LG NeON<sup>®</sup> 2 series are proven to produce high energy output with top level efficiency. Unique high-efficiency n-type cell gives customer flexible use of roof space.



### Simplified Logistics

Embedding micro inverter to LG NeON<sup>®</sup> 2 <sub>Black</sub>, PV system became one product. It gives people benefit of simple order, storage and transport.



### Enhanced Long-term Reliability

The LG NeON® 2  $_{\text{Black ACe}}$  has 15mm AIR GAP between DC module and Micro inverter. The air gap cooling DC module and inverter down restricts decrease of performance by heats.



### Safer Solar Roof System

The LG NeON<sup>®</sup> 2 <sub>Black ACe</sub> can be applied as safe system with low-voltage DC power system on roofs. Moreover, it conforms every norm for residential use such as NEC 2014 and 2017.



### User Friendly Monitoring

"Enlighten" and "Installer's tookit" monitoring system helps home monitoring and managing installation via web and mobile.



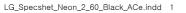
### Quick Installation

When LG NeON<sup>®</sup> 2 Black ACe is installed on a roof, only two steps are needed: lifting and connecting. Therefore, LG NeON<sup>®</sup> 2 Black ACe can save the efforts and time for installation.

### 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), NeON®2, NeON®2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG Solar's lead, innovation and commitment to the industry.





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### LG320E1K-A5

### **Mechanical Properties**

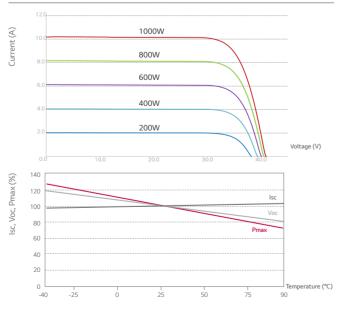
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6 x 10
LG
Monocrystalline / N-type
161.7 x 161.7 mm / 6 inches
12 EA (Multi Wire Busbar)
1,686 x 1,016 x 40 mm
66.38 x 40 x 1.57 in
19.0 kg / 41.89 lb
6000 Pa (Front) / 5400 Pa (Rear)
125 psf (Front) / 113 psf (Rear)
Natural convection - No fans
Outdoor - NEMA 250 type 6 (MIC)
-40 ~ +65 °C (-40 ~ +149 °F)
-40 ~ +85 °C (-40 ~ +185 °F)
High Transmission Tempered Glass
Anodized Aluminium
Enphase IQ6+ Microinverter

#### Certifications and Warranty

Certifications	AC Module	UL 1741, UL 1703		
		UL 1741 / IEEE 1547, UL 62109-1		
	Micro Inverter	FCC Part 15 Class B, ICES-0003 Class B		
		CAN/CSA-C22.2 NO. 107.1-01		
Module Fire Performance		Type 2 (UL 1703)		
Solar Module Product Warranty		12 years		
Micro Inverter Warranty		25 years		
Output Warranty of Pmax (DC)		Linear Warranty*		
(Measurement Tolerance ± 3%)		Lincal vvaliality		

\* 1) 1st year: 98%, 2) After 1st year: 0.55%p annual degradation, 3) 84.8% for 25 years

#### **Characteristic Curves**



# Life's Good

LG Electronics Inc. Solar Business Division LG Twin Towers, 128 Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Korea www.lg-solar.com

### DC Electrical Properties (STC\*)

Model		LG320E1K-A5
Maximum Power (Pmax)**	[W]	320
Module Efficiency	[%]	18.7
Power Tolerance	[%]	0~+3

\* STC (Standard Test Condition): Irradiance 1000 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.

### **DC Temperature Characteristics**

NOCT*	[°C]	45 ± 3		
Pmax	[%/°C]	-0.37		
Voc	[%/°C]	-0.27		
lsc	[%/°C]	0.03		
* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind				

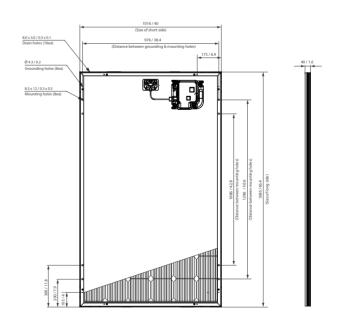
speed 1 m/s

#### **AC Electrical Properties**

Peak Output Power	[VA]	290
Max. Continuous Output Power	[VA]	280
Nominal Voltage / Range	[V]	240/211~264
Nominal Output Current	[A]	1.17
Nominal Frequency / Range	[Hz]	60.0 / 59.3~60.5
Power Factor / Adjustable		1 / 0.7leading0.7lagging
CEC Weighted Efficiency	[%]	97.0
Max. Branch Circuit Over Current Protection	[A]	20
Number of Max. AC Modules	[EA]	13

### Dimensions (mm / inch)





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

Product specifications are subject to change without notice. DS-N5-60-K-G-P-EN-70720

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