

LG NeON[®] 2 Black ACe

LG320E1K-A5



60

320W

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



Feature



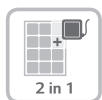
High Power Output

The LG NeON[®] 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.



Safer Solar Roof System

The LG NeON[®] 2 Black ACe 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.



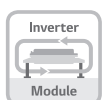
Simplified Logistics

Embedding micro inverter to LG NeON[®] 2 Black, PV system became one product. It gives people benefit of simple order, storage and transport.



User Friendly Monitoring

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



Enhanced Long-term Reliability

The LG NeON[®] 2 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.



Quick Installation

When LG NeON[®] 2 Black ACe is installed on a roof, only two steps are needed: lifting and connecting. Therefore, LG NeON[®] 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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Mechanical Properties

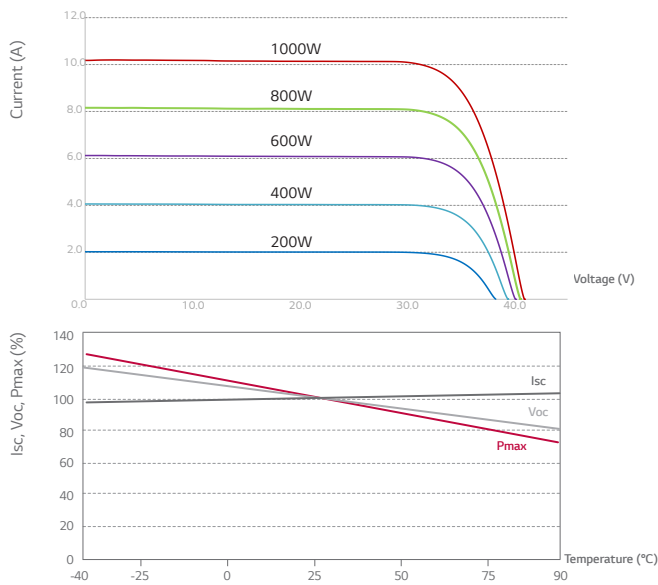
Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
# of Busbar	12 EA (Multi Wire Busbar)
Dimensions (L x W x H)	1,686 x 1,016 x 40 mm
	66.38 x 40 x 1.57 in
Weight	19.0 kg / 41.89 lb
Maximum Static Load	6000 Pa (Front) / 5400 Pa (Rear)
	125 psf (Front) / 113 psf (Rear)
Cooling	Natural convection - No fans
Enclosure Environmental Rating	Outdoor - NEMA 250 type 6 (MIC)
Operating Ambient Temperature	-40 ~ +65 °C (-40 ~ +149 °F)
Storage Temperature	-40 ~ +85 °C (-40 ~ +185 °F)
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium
Inverter Model (Utility Interactive)	Enphase IQ6+ Microinverter

Certifications and Warranty

Certifications	AC Module	UL 1741, UL 1703
	Micro Inverter	UL 1741 / IEEE 1547, UL 62109-1
		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) (Measurement Tolerance ± 3%)	Linear Warranty*	

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

Characteristic Curves



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

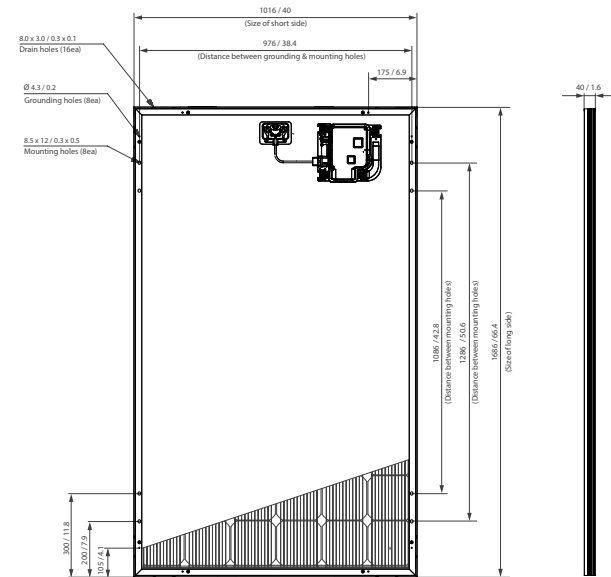
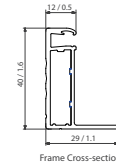
NOCT*	[°C]	45 ± 3
Pmax	[%/°C]	-0.37
Voc	[%/°C]	-0.27
Isc	[%/°C]	0.03

* 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 / 0.7leading...0.7lagging
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.



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

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

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