LG NeON[®] 2 Black ACe

LG320E1K-A5

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.







60

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.



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.



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[®] 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.



User Friendly Monitoring

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



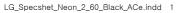
Quick Installation

When LG NeON[®] 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

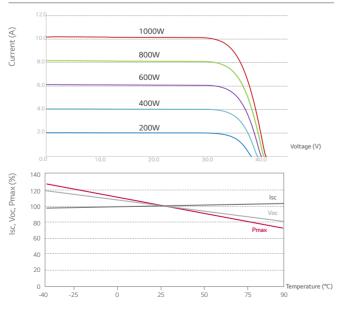
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6 x 10
LG
Monocrystalline / N-type
161.7 x 161.7 mm / 6 inches
12 EA (Multi Wire Busbar)
1,686 x 1,016 x 40 mm
66.38 x 40 x 1.57 in
19.0 kg / 41.89 lb
6000 Pa (Front) / 5400 Pa (Rear)
125 psf (Front) / 113 psf (Rear)
Natural convection - No fans
Outdoor - 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				

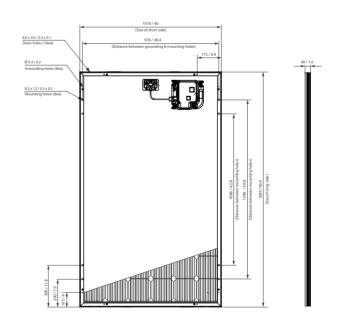
speed 1 m/s

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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