

LG NeON® 2 72cell

LG400N2W-A5

72 cell

LG's $NeON^{\circledcirc}$ 2 module adopts Cello TechnologyTM. Cello TechnologyTM replaces 3 busbars with 12 thin wires to enhance power output and reliability. The $NeON^{\circledcirc}$ 2 72cell demonstrates LG's efforts to increase customer value through efficiency, enhanced warranties, durability and performance.











Enhanced Performance Warranty

LG NeON® 2 has an enhanced performance warranty. The annual degradation has fallen from -0.6%/yr to -0.5%/yr. Even after 25 years, the cell guarantees 2.4% more output than the previous LG NeON® 2 modules.



Roof Aesthetics

LG NeON® 2 has been designed with aesthetics in mind, using thinner wires that appear all black at a distance.



Improved Performance on Sunny Days

LG NeON® 2 now performs better on sunny days, thanks to its improved temperature coefficient.



High Power Output

Compared with previous models, the LG NeON® 2 has been designed to significantly enhance its output efficiency, thereby making it efficient even in limited space.



Outstanding Durability

With its newly reinforced frame design, LG has extended the warranty of the LG NeON® 2 for an additional 3 years. Additionally, LG NeON® 2 can endure a front load up to 5400 Pa, and a rear load up to 4300 Pa.



Double-Sided Cell Structure

The rear of the cell used in the LG NeON® 2 contributes to generation, just like the front; the light beam reflected from the rear of the module is reabsorbed to generate additional power.

About LG Electronics



Mechanical Properties

Cells	6 x 12
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
# of Busbar	12 (Multi Wire Busbar)
Dimensions (L x W x H)	2024 x 1024 x 40 mm
	79.69 x 40.31 x 1.57 incht
Front Load	5400Pa
Rear Load	4300Pa
Weight	21.7 kg
Connector Type	MC4
Junction Box	IP68 with 3 Bypass Diodes
Cables	1200 mm x 2 ea
Glass	Tempered Glass with AR Coating
Frame	Anodized Aluminium

Certifications and Warranty

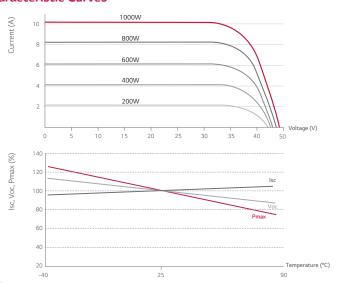
Certifications	IEC 61215, IEC 61730-1/-2
	UL 1703
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
	ISO 9001
Module Fire Performance (USA)	Type 1
Fire Rating (CANADA)	Class C (ULC / ORD C1703)
Product Warranty	25 years
Output Warranty of Pmax	Linear warranty**

^{** 1) 1}st year : 98%, 2) After 1st year : 0.5% annual degradation, 3) 25 years : 86%

Temperature Characteristics

NOCT	45 ± 3 ℃
Pmpp	-0.36%/°C
Voc	-0.26%/°C
Isc	-0.02%/°C

Characteristic Curves



Electrical Properties (STC*)

Module	400W
Maximum Power (Pmax)	400
MPP Voltage (Vmpp)	40.6
MPP Current (Impp)	9.86
Open Circuit Voltage (Voc)	49.3
Short Circuit Current (Isc)	10.47
Module Efficiency	19.3
Operating Temperature	-40 ~ +90
Maximum System Voltage	1500 (UL)
Maximum Series Fuse Rating	20
Power Tolerance (%)	0~+3

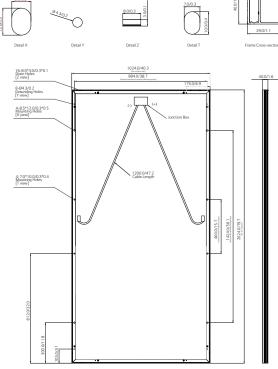
^{*} STC (Standard Test Condition): Irradiance 1,000 W/m², Cell Temperature 25 °C, AM 1.5

Electrical Properties (NOCT*)

Module	400W
Maximum Power (Pmax)	296
MPP Voltage (Vmpp)	37.6
MPP Current (Impp)	7.88
Open Circuit Voltage (Voc)	46.1
Short Circuit Current (Isc)	8.41

^{*} NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², ambient temperature 20 °C, wind speed 1m/st

Dimensions (mm/in)





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Product specifications are subject to change without notice.

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^{*} The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

^{*} The Typical change in module efficiency at 200W/m² in relation to 1000W/m² is -2.0%.