

BUILT TO PERFORM. BUILT TO LAST.

LG NeON[®] H

460W/465W/470W

Up to 21.4% module efficiency

**LG NeON[®] H - Ideally suited for
Australia and New Zealand climates**

The LG NeON[®] H is a powerful and one of the most versatile modules on the market today. The LG NeON[®] H is equipped with N-type cells technology to increase power and efficiency compared to models. The LG NeON[®] H includes a 25-year product and performance warranty for high performance and reliability.



144 cell



Electrical Properties (STC*)

Module Type	LG460N2W-E6	LG465N2W-E6	LG470N2W-E6
Maximum Power P _{max} (W)	460	465	470
MPP Voltage V _{mpp} (V)	42.4	42.7	43.0
MPP Current I _{mpp} (A)	10.86	10.89	10.93
Open Circuit Voltage Voc (± 5%) (V)	50.2	50.5	50.7
Short Circuit Current I _{sc} (± 5%) (A)	11.45	11.51	11.57
Module Efficiency (%)	20.9	21.2	21.4
Operating Temperature (°C)	-40 ~ +85		
Maximum System Voltage (V)	1000 (IEC)		
Maximum Series Fuse Rating (A)	20		
Power Tolerance (%)	0 ~ +3		

* STC (Standard Test Condition) : Irradiance 1,000W/m², Cell temperature 25°C, AM 1.5.

Electrical Properties (NMOT²)

Module Type	LG460N2W-E6	LG465N2W-E6	LG470N2W-E6
Maximum Power P _{max} (W)	347	351	355
MPP Voltage V _{mpp} (V)	39.90	40.20	40.50
MPP Current I _{mpp} (A)	8.70	8.72	8.76
Open Circuit Voltage (Voc)	47.40	47.70	47.90
Short Circuit Current I _{sc} (A)	9.22	9.27	9.32

² NMOT (Nominal Module Operating Temperature):
Irradiance 800W/m², Ambient temperature 20 °C, Wind speed 1 m/s, Spectrum AM 1.5.

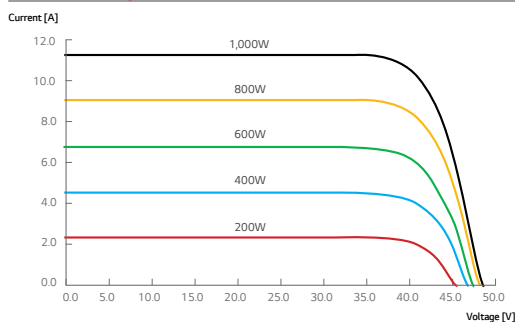
Mechanical Properties

Cell Configuration	144 Cells (6 x 24)
Cell Maker	LG
Cell Properties	Monocrystalline / N-type
Number of Busbars	9EA
Dimensions (L x W x H)	2,110 x 1,042 x 40 mm
Front Load (test)	5400 Pa
Rear Load (test)	3000 Pa
Weight	22kg
Connector Type	Genuine MC4, IP68 (Male: PV-KST4)(Female: PV-KBT4)
Junction Box	IP68 with 3 bypass diodes
Length of Cables	1,400mm x 2 EA
Glass (Material)	Tempered Glass with AR Coating
Backsheet Colour	White
Frame	Anodised aluminum

Temperature Characteristics

NMOT ²	42 ± 3 °C
P _{max}	-0.33 %/°C
Voc	-0.26 %/°C
I _{sc}	0.04 %/°C

Current – Voltage characteristics at various irradiance levels



Certifications and Warranty

Certifications	ISO 9001, ISO 14001, ISO 50001 IEC 61215-1 / -1-1 / 2:2016, IEC 61730-1 / 2:2016, UL 61730-1:2017, UL 61730-2:2017 ISO 45001
Salt Mist Corrosion Test	IEC 61701 : 2011 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Fire Rating	Class C (UL 790)
Product Warranty	25 Years
Output Warranty of P _{max} (Measurement Tolerance ± 3%)	Linear Warranty ¹

¹ 1) 1st year: 98.5%, 2) After 1st year: 0.33% annual degradation, 3) 90.6% at 25 years.

Dimensions (mm)

