

BUILT TO PERFORM. BUILT TO LAST.

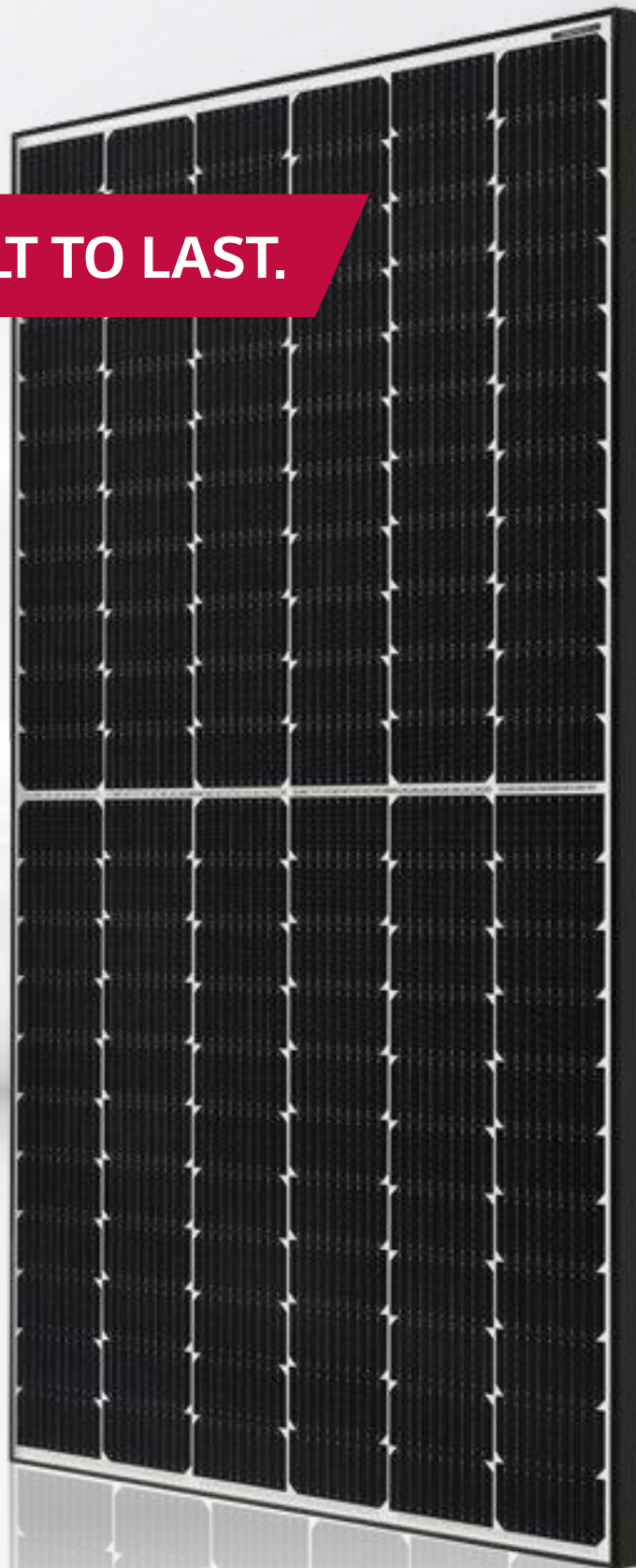
LG NeON[®] H BiFacial

440W/445W/450W

Up to 21.8% module efficiency

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

The LG NeON[®] H BiFacial is one of the most powerful and versatile modules on the market today. The LG NeON[®] H BiFacial is designed to absorb sunlight from both the front and rear sides of its cells by using a transparent back sheet, providing up to 30% higher electricity production.



Electrical Properties (STC^{*})

Module Type	LG440N2T-F6			LG445N2T-F6			LG450N2T-F6		
	STC [*]	BiFi100 ^{**}	BiFi200 ^{**}	STC [*]	BiFi100 ^{**}	BiFi200 ^{**}	STC [*]	BiFi100 ^{**}	BiFi200 ^{**}
Maximum Power P _{max} (W)	440	470	500	445	475	505	450	480	510
MPP Voltage V _{mpp} (V)	41.7	41.7	41.7	42.0	42.0	42.0	42.2	42.2	42.2
MPP Current I _{mpp} (A)	10.56	11.27	11.99	10.61	11.31	12.02	10.67	11.37	12.09
Open Circuit Voltage V _{oc} (± 5%) (V)	49.7	49.7	49.7	50.0	50.0	50.0	50.3	50.3	50.3
Short Circuit Current I _{sc} (± 5%) (A)	11.06	11.80	12.56	11.11	11.84	12.59	11.15	11.89	12.63
Module Efficiency (%)	20.0	21.4	22.7	20.2	21.6	23.0	20.5	21.8	23.2
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.

^{**} The electrical properties of BiFi100 and BiFi200 measure under the front side irradiance 1000W/m² + (100W/m² or 200W/m²) * BiFi. Use 100W/m² for BiFi100 and 200W/m² for BiFi200.

Electrical Properties (NMOT²)

Module Type	LG440N2T-F6			LG445N2T-F6			LG450N2T-F6		
	NMOT	BiFi100	BiFi200	NMOT	BiFi100	BiFi200	NMOT	BiFi100	BiFi200
Maximum Power P _{max} (W)	332	354	377	336	358	381	340	362	385
MPP Voltage V _{mpp} (V)	39.3	39.3	39.3	39.5	39.5	39.5	39.7	39.7	39.7
MPP Current I _{mpp} (A)	8.46	9.03	9.61	8.50	9.06	9.63	8.55	9.11	9.68
Open Circuit Voltage (V _{oc})	46.9	46.9	46.9	47.2	47.2	47.2	47.5	47.5	47.5
Short Circuit Current I _{sc} (A)	8.91	9.51	10.11	8.95	9.54	10.14	8.98	9.57	10.17

² NMOT (Nominal Module Operating Temperature):

Irradiance 800W/m², Ambient temperature 20 °C, Wind speed 1 m/s, Spectrum AM 1.5.

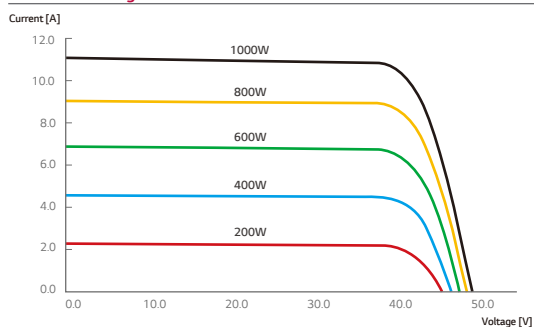
Mechanical Properties

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 mm x 1,042 mm 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	Transparent
Frame	Anodised aluminum

Temperature Characteristics

NMOT ²	42 ± 3 °C
P _{max}	-0.33 %/°C
V _{oc}	-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: 0.35% annual degradation, 3) 90.1% at 25 years.

Dimensions (mm)

