Preliminary

LG NeON 2 72Cell

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)	2,024 x 1,024 x 40 mm
Front Load	5,400 Pa
Rear Load	2,400 Pa
Weight	21.7 kg
Connector Type	MC4, 05-8
Junction Box	IP68 with 3 Bypass Diodes
Cables	1,200 mm x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

Electrical Properties (STC*)

Model		LG400N2W-A5	LG395N2W-A5	LG390N2W-A5
Maximum Power (Pmax)	[W]	400	395	390
MPP Voltage (Vmpp)	[V]	40.6	40.2	39.8
MPP Current (Impp)	[A]	9.86	9.83	9.81
Open Circuit Voltage (Voc)	[V]	49.3	49.2	49.1
Short Circuit Current (Isc)	[A]	10.47	10.43	10.39
Module Efficiency	[%]	19.3	19.1	18.8
Operating Temperature	[℃]	-40 ~ +90		
Maximum System Voltage	[V]	1,000(IEC)/1,500(UL)		
Maximum Series Fuse Rating	[A]	20		
Power Tolerance	[%]	0 ~ +3		

* STC (Standard Test Condition): Irradiance 1000W/m^2, module temperature 25℃, AM 1.5

* 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/m^2 in relation to 1000W/m^2 is -2.0%.

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	Type 1*
Fire Rating	Class C*
Product Warranty	12 Years
Output Warranty of Pmax	Linear Warranty**

* In Progress

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

Electrical Properties (NOCT*)

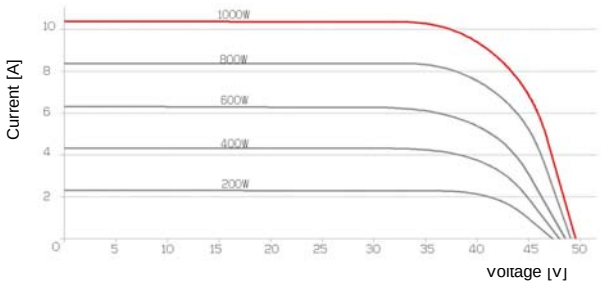
Model		LG400N2W-A5	LG395N2W-A5	LG390N2W-A5
Maximum Power (Pmax)	[W]	296	293	289
MPP Voltage (Vmpp)	[V]	37.6	37.2	36.9
MPP Current (Impp)	[A]	7.88	7.86	7.84
Open Circuit Voltage (Voc)	[V]	46.1	46.0	45.9
Short Circuit Current (Isc)	[A]	8.41	8.38	8.35

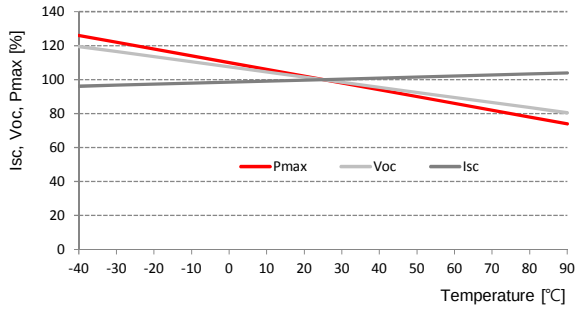
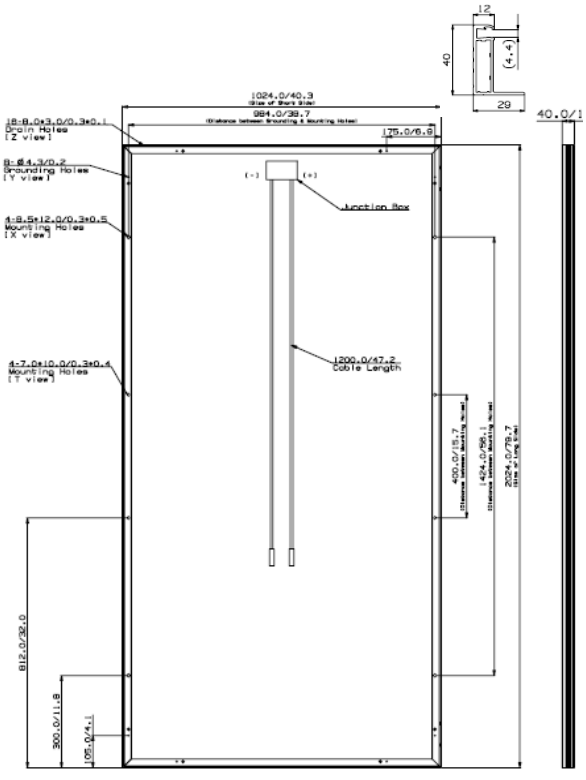
* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m^2, ambient temperature 20℃, wind speed 1m/s

Temperature Characteristics

NOCT	[℃]	45 ± 3
Pmax	[%/℃]	-0.36
Voc	[%/℃]	-0.26
Isc	[%/℃]	0.02

Characteristic Curves





Dimensions (mm/in)