

LG NeON[®]H

LG455N2W-E6

144

455W

For those who demand super-high efficiency, strong warranties and time-tested technology from a trusted brand, the NeON H Monofacial module is good value and offers improved temperature coefficient and near-zero Light Induced Degradation (LID).



Features



Enhanced Performance Warranty

LG NeON[®] H has an enhanced performance warranty. After 25 years, LG NeON[®] H is guaranteed at least 90.6% of initial performance.



25-Year Limited Product Warranty

The NeON[®] H is covered by a 25-year limited product warranty.



Solid Performance on Hot Days

LG NeON[®] H performs well on hot days due to its low temperature coefficient.



BOS (Balance Of System) Saving

LG NeON[®] H can reduce the total number of strings due to its high module efficiency resulting in a more cost effective and efficient solar power system.



Bifacial Energy Yield

LG NeON[®] H modules use a highly efficient bifacial solar cell, "NeON" applied Cello technology for better energy production than standard monofacial PV module.

When you go solar, ask for the brand you can trust: LG Solar

About LG Solar.

LG is transforming today's solar landscape, offering high-efficiency solar panels for customers who demand high performance, reliability and consistently strong energy yield from a brand they can trust. LG's modules feature high-power outputs, outstanding durability, appealing aesthetics and high-efficiency technology.



LG455N2W-E6

General Data

Cell Properties (Material/Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	144 Cells (6 x 24)
Number of Busbars	9EA
Module Dimensions (L x W x H)	2,110mm x 1,042mm x 40mm
Weight	22kg
Glass (Material)	Tempered Glass with AR Coating
Backsheet (Color)	White
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)*	1,400mm x 2EA
Connector (Type/Maker)	MC 4 / MC

*Including connector

Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2 : 2016, IEC 61730-1/2: 2016, UL 61730
	ISO 9001, ISO 14001, ISO 50001
	OHSAS 18001
Salt Mist Corrosion Test	IEC 61701 : 2012 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Module Fire Performance	Type 1 (UL 61730)
Fire Rating	Class C (UL 790, ULC / ORD C 1703)
Solar Module Product Warranty	25 Year Limited
Solar Module Output Warranty	Linear Warranty*

*Improved: 1st year 98.5%, from 2-24th year: -0.33%/year down, 90.6% at year 25

Temperature Characteristics

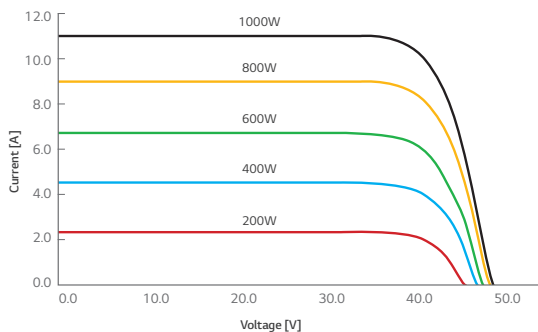
NMOT [†]	[°C]	44 ± 3
Pmax	[%/°C]	-0.33
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.04

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

Electrical Properties (NMOT)

Model	LG455N2W-E6	
Maximum Power (Pmax)	[W]	344
MPP Voltage (Vmpp)	[V]	39.60
MPP Current (Impp)	[A]	8.68
Open Circuit Voltage (Voc)	[V]	47.10
Short Circuit Current (Isc)	[A]	9.17

I-V Curves



Electrical Properties (STC*)

Model	LG455N2W-E6	
Maximum Power (Pmax)	[W]	455
MPP Voltage (Vmpp)	[V]	42.1
MPP Current (Impp)	[A]	10.83
Open Circuit Voltage (Voc, ± 5%)	[V]	49.9
Short Circuit Current (Isc, ± 5%)	[A]	11.39
Module Efficiency	[%]	20.7
Bifaciality Coefficient of Power	[%]	4
Power Tolerance	[%]	0 ~ +3

*STC (Standard Test Condition): Irradiance 1000 W/m², cell temperature 25°C, AM 1.5
Measure tolerance of Pmax: ± 3%

Operating Conditions

Operating Temperature	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000 (IEC)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load [†] (Front)	[Pa/psf]	5,400/113
Mechanical Test Load [†] (Rear)	[Pa/psf]	3,000/63

*Based on IEC 61215-2 : 2016 (Test Load = Design Load x Safety Factor (1.5))

Packaging Configuration

Number of Modules per Pallet	[EA]	25
Number of Modules per 40' HQ Container	[EA]	550
Number of Modules per 53' HQ Container	[EA]	750
Packaging Box Dimensions (L x W x H)	[mm]	2,160 x 1,120 x 1,213
Packaging Box Dimensions (L x W x H)	[in]	85 x 44.1 x 47.8
Packaging Box Gross Weight	[kg]	610
Packaging Box Gross Weight	[lb]	1,345

Dimensions (mm/inch)

