LG MONO X[®]Plus

LG MonoX[®] Plusis LG's robust P-type module that maintains high performance and efficiency.

455W | 450W | 445W

FEATURES



Extended Product Warranty

The LG MonoX[®] Plus now comes with a product warranty extended to 15 years.



Outstanding Durability

LG MonoX $^{\otimes}$ Plus is rated to with stand up to 5400 Pa on the front side and up to 3000 Pa on the rear side.



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About LG Electronics

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.



LG Mono X[®]Plus

LG455S2W-U6 / LG450S2W-U6 / LG445S2W-U6

General Data

Cell Properties (Material / Type)	Monocrystalline / P-type		
Cell Configuration	144 Cells (2 x (6 x 12))		
Number of Busbar	9EA		
Module Dimensions	2,115 x 1,052 x 40 mm		
Weight	22.3kg		
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)	1,350mm x 2EA		
Connector (Type / Maker)	PV-CO02 (IEC 1500V) / MC4 (IEC 1000V)		

Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2 : 2016, IEC 61730-1/2 : 2016		
	OHSAS 18001		
Salt Mist Corrosion Test	IEC 61701 : 2012 Severity 6		
Ammonia Corrosion Test	IEC 62716 : 20131)		
Fire Rating	Class C (UL 790)		
Product Warranty	15 Years		
Output Warranty of Pmax	Linear Warranty*		

* 1) First years : 97.5%, 2) After 1st year : 0.4% annual degradation, 3) 87.9% for 25 years

Temperature Characteristics

Model		LG455S2W-U6	LG450S2W-U6	LG445S2W-U6
NMOT*	[°C]	42 ± 3	42 ± 3	42 ± 3
Pmax	[%/°C]	-0.365	-0.365	-0.365
Voc	[%/°C]	-0.270	-0.270	-0.270
lsc	[%/°C]	0.038	0.038	0.038

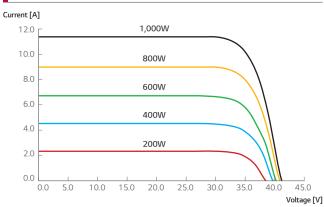
* NMOT (Nominal Module Operating Temperature)

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

Electrical Properties (NMOT)

Model		LG455S2W-U6	LG450S2W-U6	LG445S2W-U6
Maximum Power (Pmax)	[W]	342	338	334
MPP Voltage (Vmpp)	[V]	38.45	38.29	38.16
MPP Current (Impp)	[A]	8.89	8.82	8.76
Open Circuit Voltage (Voc)	[V]	47.51	47.36	47.22
Short Circuit Current (Isc)	[A]	9.30	9.21	9.14

I-V Curves



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Electrical Properties (STC*)

Model		LG450S2W-U6	LG445S2W-U6
[W]	455	450	445
[V]	41.04	40.91	40.77
[A]	11.1	11.01	10.92
[V]	50.42	50.27	50.12
[A]	11.51	11.43	11.35
[%]	20.4	20.2	20.0
[%]	0 ~ +3		
	[W] [V] [A] [V] [A] [%]	LG45552W-U6 [W] 455 [V] 41.04 [A] 11.1 [V] 50.42 [A] 11.51 [%] 20.4	LG455S2W-U6 LG450S2W-U6 [W] 455 450 [V] 41.04 40.91 [A] 11.1 11.01 [V] 50.42 50.27 [A] 11.51 11.43 [%] 20.4 20.2

* STC (Standard Test Condition)

: Irradiance 1000 W/m², Cell temperature 25°C, AM 1.5, Measure tolerance : ±3%

Operating Conditions

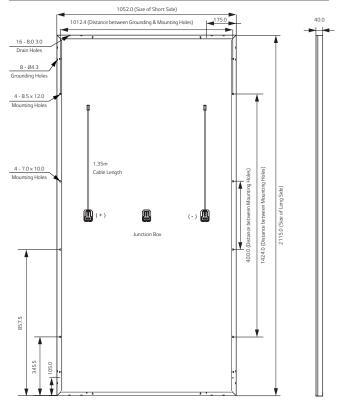
Operating Temperature	[°C]	-40 ~ +85
Maximum System Voltage	[V]	IEC 1500V / IEC 1000V
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load (Front)	[Pa/psf]	5,400 / 113
Mechanical Test Load (Rear)	[Pa/psf]	3,000 / 62

* Test Load = Design Load x Safety Factor (1.5)

Packaging Configuration

Number of Modules Per Pallet	[EA]	25
Number of Modules Per 40ft HQ Container	[EA]	550
Packaging Box Dimensions (L x W x H)	[mm]	2,165 x 1,130 x 1,225
Packaging Box Gross Weight	[kg]	613

Dimensions (mm/inch)



Product specifications are subject to change without notice. © 2021 LG Electronics. All rights reserved



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