

All eyes on our
reliable high
performer



Up to 455W
15 years product warranty
25 years performance warranty

Mechanical Properties

Cell Properties(Material / Type)	Monocrystalline / P-type
Cell Configuration	144 Cells (2 x (6 x12))
Number of Busbar	9 EA
Module Dimensions (L x W x H)	2,115 mm x 1,052mm x 40mm
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-C002(IEC 1500V) / MC4 (IEC 1000V)

Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2:2016, IEC 61730-1/2:2016
	OHSAS 18001
	ISO 9001, ISO 14001
Ammonia Corrosion Test	IEC 62716 : 2013
Salt Mist Corrosion Test	IEC 61701 : 2012 Severity 6
Fire Rating	Class C (UL 790)
Product Warranty	15 years
Output Warranty of Pmax (Measurement Tolerance ± 3%)	25 years linear warranty*

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

Temperature Characteristics

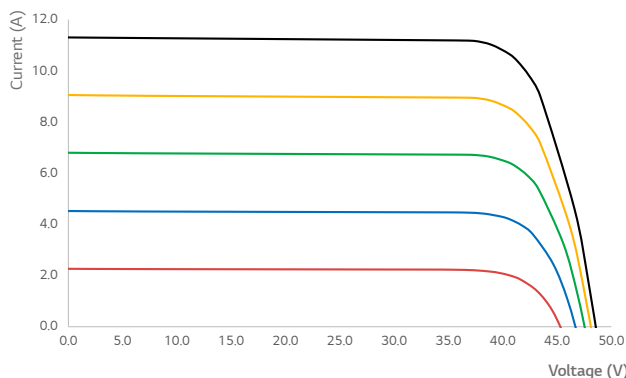
NMOT*	42 ± 3 °C
Pmax	-0.365 %/°C
Voc	-0.270 %/°C
Isc	0.038 %/°C

* NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m²; ambient temperature 20 °C, wind speed 1 m/s, Spectrum AM1.5

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

I-V Curves



Electrical Properties (STC*)

Model		LG455S2W-U6	LG450S2W-U6	LG445S2W-U6
Maximum Power Pmax	[W]	455	450	445
MPP Voltage Vmpp	[V]	41.04	40.91	40.77
MPP Current Impp	[A]	11.10	11.01	10.92
Open Circuit Voltage Voc	[V]	50.42	50.27	50.12
Short Circuit Current Isc	[A]	11.51	11.43	11.35
Module Efficiency	[%]	20.4	20.2	20.0
Operating Temperature	[°C]	-40 ~ +85		
Maximum System Voltage	[V]	1000 (IEC) / 1500(IEC)		
Maximum Series Fuse Rating	[A]	20		
Power Tolerance	[%]	0 ~ +3		
Mechanical Test Load(Front)	[Pa/psf]	5,400 Pa		
Mechanical Test Load(Rear)	[Pa/psf]	3,000 Pa		

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

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

Dimensions (mm)

