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Solar Panel Guide Specification Data Sheet

Evolve Energy Group LG290-300S1C-A5 LG300S1C-A5



LG300S1C-A5 | LG295S1C-A5 LG290S1C-A5

60 cell

LG MonoX *Plus* is LG Electronics' high-quality monocrystalline module. The quality is the result of our strong commitment to developing a module to improve benefits for customers. Features of MonoX *Plus* include durability, convenient installation, and aesthetic exterior.











Key Features



Enhanced Performance Warranty

LG Mono X® *Plus* has an enhanced performance warranty. The initial degradation of cells has been improved from -3% to -2%, and the annual rate of degradation has fallen from -0.6%/yr to -0.55%/yr.



Reduced LID

LG Mono X[®] Plus has reduced the initial degradation of solar cells by applying LG's new LiLY (LID-improvement for Lifetime Yield) Technology, which controls the reaction of Boron and Oxygen, the main cause of LID (Light Induced Degradation).



Extended Product Warranty

As well as the enhanced performance warranty, LG has extended the product warranty of the LG Mono X[®] Plus for an additional 2 years.



Outstanding Durability

With its newly reinforced frame design, LG Mono X[®] *Plus* can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.

About LG Electronics





Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / P-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
# of Busbar	4
Dimensions (L x W x H)	1,686 x 1,016 x 40 mm
	66.39 x 40 x 1.57 in
Front Load	6,000Pa / 125 psf
Rear Load	5,400Pa / 113 psf
Weight	18.0 kg / 39.68 lb
Connector Type	MC4 (MC)
Junction Box	IP68 with 3 Bypass Diodes
Cables	1,000 mm x 2 ea / 39.37 in x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

Certifications and Warranty

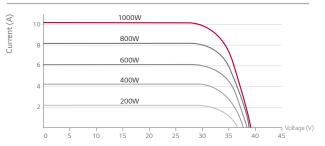
Certifications and vvarranty				
	IEC 61215, IEC 61730-1/-2			
	UL 1703			
Certifications	IEC 61701 (Salt mist corrosion test)			
	IEC 62716 (Ammonia corrosion test)			
	ISO 9001			
Module Fire Performance	Type 1 (UL)			
Fire Rating	Class C			
Product Warranty	12 Years			
Output Warranty of Pmax	Linear Warranty**			
* 1) 1 st year (000/ 2) after 2nd year (0 EE)/n applied degradation 2) 04 00/ for 2E years				

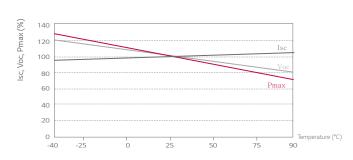
^{* 1) 1}st year : 98% 2) after 2nd year : 0.55%p annual degradation 3) 84.8% for 25 years

Temperature Characteristics

NOCT	[℃]	45 ± 3
Pmax	[%/°C]	-0.41
Voc	[%/°C]	-0.30
Isc	[%/°C]	0.03

Characteristic Curves





Electrical Properties (STC*)

Model		LG300S1C-A5	LG295S1C-A5	LG290S1C-A5
Maximum Power (Pmax)	[W]	300	295	290
MPP Voltage (Vmpp)	[V]	31.7	31.3	31.0
MPP Current (Impp)	[A]	9.47	9.43	9.36
Open Circuit Voltage (Voc)	[V]	38.9	38.6	38.3
Short Circuit Current (Isc)	[A]	10.07	10.02	9.97
Module Efficiency	[%]	17.5	17.2	16.9
Operating Temperature	[°C]	-40 ~ +90		
Maximum System Voltage	[V]	1,000 (UL / IEC)		
Maximum Series Fuse Rating	[A]	20		
Power Tolerance	[%]	0~+3		

^{*} STC (Standard Test Condition): Irradiance 1000 W/ m^2 , Ambient temperature 25 °C, AM 1.5

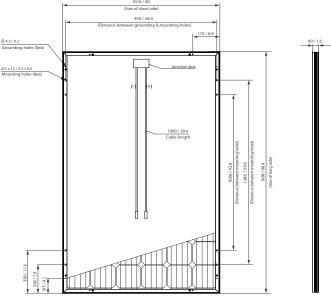
Electrical Properties (NOCT*)

Model		LG300S1C-A5	LG295S1C-A5	LG290S1C-A5		
Maximum Power (Pmax)	[W]	220	216	212		
MPP Voltage (Vmpp)	[V]	29.1	28.7	28.4		
MPP Current (Impp)	[A]	7.56	7.53	7.47		
Open Circuit Voltage (Voc)	[V]	36.0	35.7	35.4		
Short Circuit Current (Isc)	[A]	8.10	8.06	8.02		

^{*} NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/s

Dimensions (mm / inch)





* The distance between the center of the mounting/grounding holes.



Product specifications are subject to change without notice. DS-A5-60-C-G-F-EN-70228



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^{*} The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.