EN

CLEAR THE STAGE FOR THE ALL-ROUNDER

LG MonoX® Plus

UP TO 300 WATTS

STRONG GUARANTEES

EXTREMELY DURABLE

LG
Life's Good

LG MonoX® Plus

www.lg-solar.com/uk

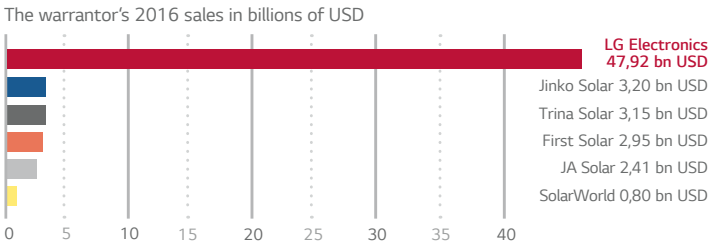
LG MonoX® *PLUS* – DURABLE AND HIGHLY EFFICIENT

The new solar module of the MonoX® series is the next step of well-known LG quality features: long lifespan, strong guarantees, as well as easy handling combined with first-class energy performance.

LOCAL GUARANTOR, GLOBAL SECURITY

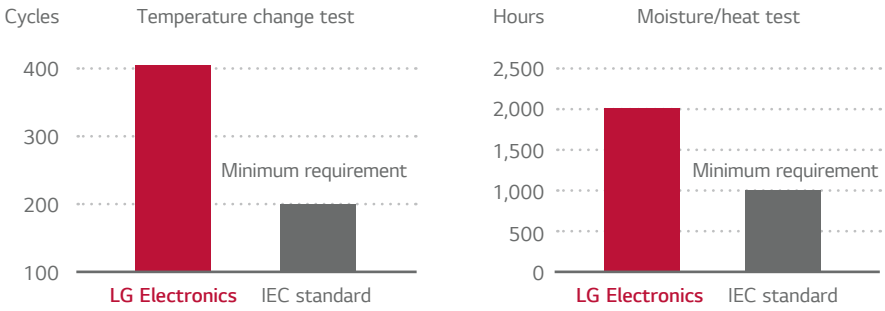
LG Solar is part of LG Electronics, a global and financially strong company, with over 50 years of experience.

Good to know: LG Electronics is the warrantor for your solar modules.



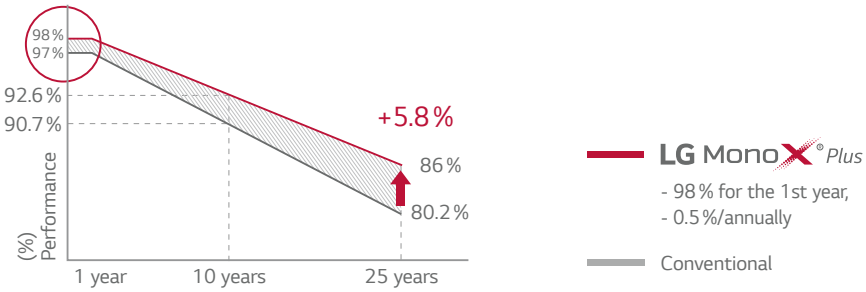
EXCELLENT QUALITY, INDEPENDENTLY TESTED

You can rely on LG. We test our products with double the intensity specified in the IEC standard. This quality is valued by installers across Europe, which is why they have awarded our LG solar modules the "Top Brand PV" stamp of quality for the highest recommendation rates for the third time in a row. Moreover, they have already received the prestigious Intersolar Award as well as the Plus X Award – one of the biggest innovation awards for technology, sport and lifestyle.



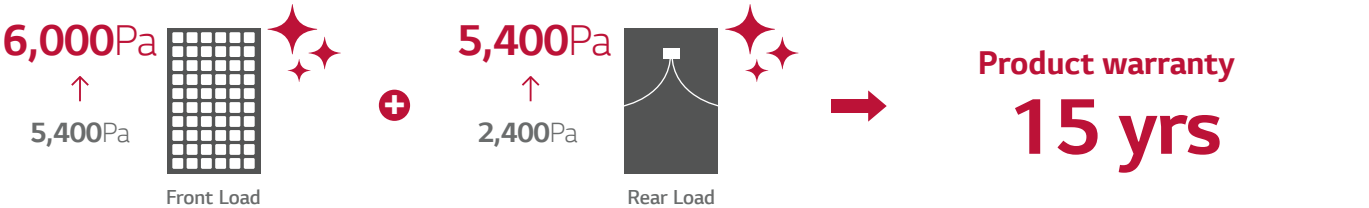
LILY TECHNOLOGY, AN LG ADVANTAGE

Annual Degradation
The LG MonoX® *Plus* prevents declines in initial performance with LiLY technology, increasing the reliability of long-term performance.



FRAME & MODULE DESIGN

With reinforced frame design, LG MonoX® *Plus* can endure a front load up to 6,000Pa (represents snow height of normal snow of more than 1.8 meters) and a rear load up to 5,400Pa (represents wind speed of up to 93 m/s, compare max. wind speed of Hurricane Katrina 2005 of max. 75 m/s).



LG MonoX® Plus

LG300S1C-A5 | LG295S1C-A5
LG290S1C-A5

60 Cells

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 MonoX® *Plus* has an enhanced performance warranty. The annual rate of degradation has fallen from max. -0.55 %/yr to max. -0.5 %/yr.

Reduced LID

LG MonoX® *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).

Improved Product Warranty

As well as the enhanced performance warranty, LG has extended the product warranty of the LG MonoX® *Plus* for an additional 3 years.

Light and Convenient

LG MonoX® *Plus* has been carefully designed. it weighs just 18 kg (39.68 lb) and has better grips that allow for quick installation.

About LG Electronics

LG Electronics is a global big player, committed to expanding its operations with the solar market. The company first embarked on a solar energy source research program in 1985, supported by LG Group's vast experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first MonoX® series to the market, which is now available in 32 countries. The NeON® (previous. MonoX® NeON), NeON®2, NeON®2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG Solar's lead, innovation and commitment to the industry.

LG MonoX® Plus

Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline/P-type
Cell Dimensions	161.7 x 161.7 mm
# of Busbar	4
Dimensions (L x W x H)	1,686 x 1,016 x 40 mm
Static Load	6,000Pa (snow load)
	5,400Pa (wind load)
Weight	18 kg
Connector Type	MC4
Junction Box	IP68 with 3 Bypass Diodes
Length of Cables	2 x 1,000 mm
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

Certifications and Warranty

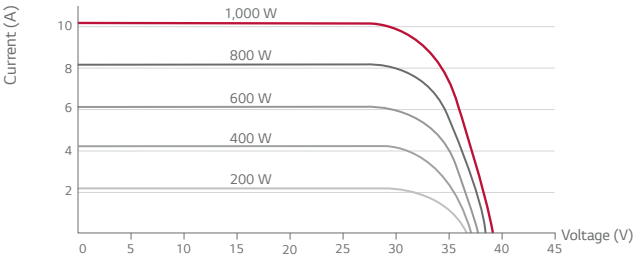
Certifications	IEC 61215, IEC 61730-1/-2
	IEC TS 62804-1 (PID)
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
	ISO 9001
Module Fire Performance	Class C, Fire Class 1 (Italy)
Product Warranty	15 years
Output Warranty of Pmax (Measurement Tolerance ±3%)	Linear warranty (25 years)[1]

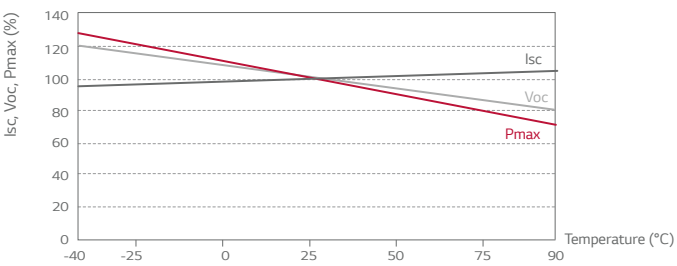
[1] 1) 1st year: 98%. 2) After 2nd year: 0.5% p annual degradation. 3) 86% for 25 years.

Temperature Characteristics

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

Characteristic Curves





Electrical Properties (STC[2])

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		
Maximum Series Fuse Rating	[A]	20		
Power Tolerance	[%]	0 ~ +3		

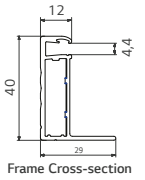
[2] 1) STC (Standard Test Condition): Irradiance 1,000 W/m², module temperature 25 °C, AM 1.5.
2) The typical change in module effi ciency at 200 W/m² in relation to 1,000 W/m2 is -4.5 %.
3) Application Class: A, Safety Class: II.
4) The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NOCT[3])

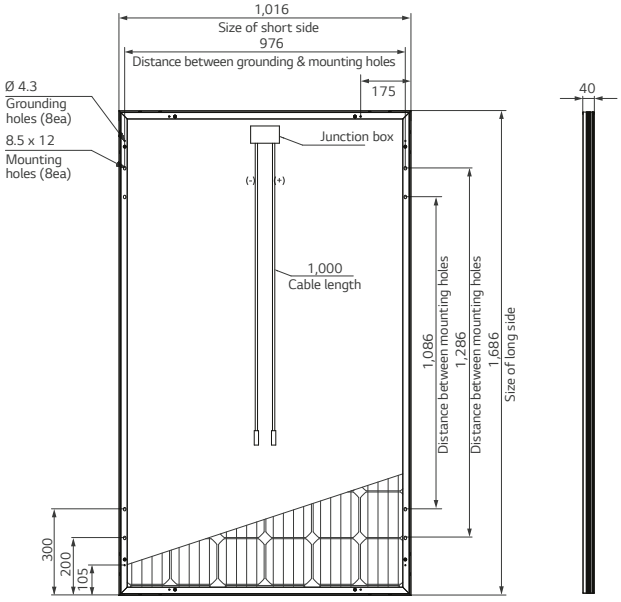
Model		LG300S1C-A5	LG295S1C-A5	LG290S1C-A5
Maximum Power (Pmax)	[W]	220	216	212
MPP Voltage (Vmpp)	[V]	29.1	28.7	28.4
MPP Current (Impp)	[A]	7.56	7.53	7.47
Open Circuit Voltage (Voc)	[V]	36.0	35.7	35.4
Short Circuit Current (Isc)	[A]	8.10	8.06	8.02

[3] NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s.

Dimensions (mm)



Frame Cross-section



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

LG Electronics Deutschland GmbH
EU Solar Business Group
Alfred-Herrhausen-Allee 3–5
65760 Eschborn, Germany
E-Mail: solar@lge.de
www.lg-solar.com/uk

All details in this data sheet comply with DIN EN 50380.
Subject to errors and alterations.
Date: 01/2018
Document: DS-S1C-A5-EN-201801