LG SOLAR – ENERGY WITH A CLASSIC DESIGN.

LG
Life's Good

MonoX™ Black

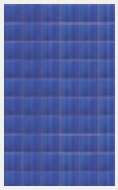
www.lg-solar.com/uk

LG MonoX™ BLACK – STYLISH DESIGN FOR LIFE

It's not every day that you buy a solar installation for your home. So it's good if you can rely on independent tests when searching for the right module. This provides security – after all you are making a decision for the coming decades. The design of the solar modules is all the more important if this acquisition is clearly visible day in, day out. The MonoX™ Black solar modules from LG combine technical advances with high-quality aesthetics in an all-black finish and also offer a very good cost/performance ratio.

ATTRACTIVE DESIGN FOR THE PRESENT AND THE FUTURE

The MonoX™ Black monocrystalline solar module with its black anodized frame and black back sheet in a high-quality design blends in harmoniously with the appearance of your house. The solar modules will be modern for many years to come as they are not subject to any temporary design trends.



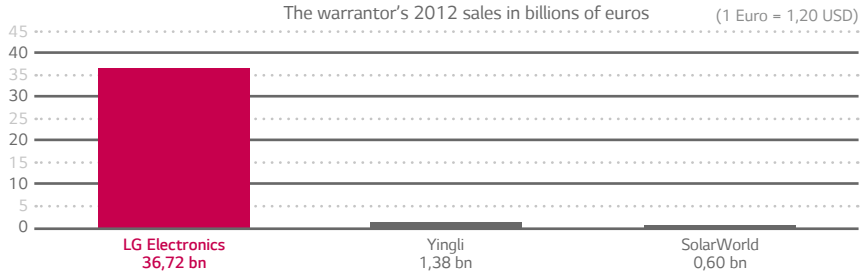
CONVENTIONAL MODULES

MonoX™ Black

LOCAL WARRANTOR, GLOBAL SECURITY

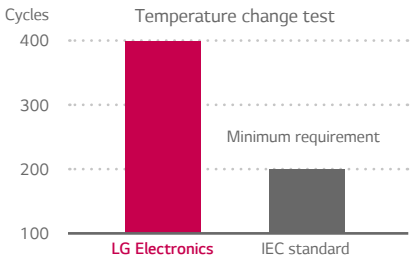
LG Solar is part of LG Electronics, a global company with sound finances and over 50 years of tradition and experience.

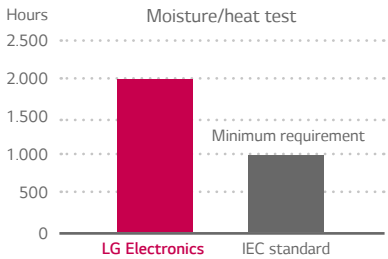
Good to know: LG Electronics is the warrantor for your solar modules.



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 highest recommendation rates.





A STYLISH DECISION FOR LIFE

A solar installation is a once-in-a-lifetime acquisition. This makes it all the more important to go for quality at the outset as it will save you a lot of trouble in the long run. The MonoX™ Black solar modules are a good choice – they have a timeless and modern design and will supply you with clean and reasonably priced electricity over many years. At the same time, you benefit from better quality in comparison with other modules – for a maximum of £ 0,65 per month extra compared to cheap modules. That's just about the price of an espresso.

* With a 4kWp installation, the difference between MonoX™ Black and a cheap modules is a maximum of 200 pounds. Based on a useful life of 25 years, this equates to a difference of £ 0.65 per month. Not a lot of money for better quality and security. Calculation based on 16 modules at 250 Wp and 5 pence per Wp more.

A STRONG PARTNER FULL OF ENERGY

LG Electronics, Inc. (Korean stock exchange: 06657.KS) is a global leader and technological innovator supplying electronics, information and communications products. At present, LG Electronics employs more than 87,000 staff at 113 factories worldwide. The company achieved total sales of 36.72 billion euros in the 2012 financial year.

LG is one of the world's largest manufacturers of mobile phones, flat-screen televisions, air conditioning units, washing machines and cooling appliances. As a forward-looking company, LG is committed to renewable energy technology and is expanding this area. LG produces its entire range of high-quality solar products at its parent plant in Korea.

KM 564573 BS EN 61215
Photovoltaic Modules

QUALITY THAT HAS EVERYONE BEAMING

Top installer brand

LG solar modules have been awarded the TOP BRAND PV stamp of quality for Germany, the United Kingdom and the Benelux countries. The stamp of quality is awarded by EuPD Research – a leading market research company – for one of the highest installer recommendation rates.

25-year linear warranty

25y
Linear warranty

LG Electronics gives a 25-year linear warranty on the MonoX™ Black solar modules. This guarantees 6.7 % more output than with the usual phased warranties.

High-quality design

Design

The MonoX™ Black monocrystalline solar module has an unobtrusive design with a black anodized frame and black back sheet. The high-quality aesthetics are perfectly complemented by the technical advance of an output of 260 to 270 Wp. The elegant design can be easily integrated into any rooftop.

Sales of 36.7 bn euros in 2012

Since it was founded in 1958 (as Goldstar), LG Electronics has become one of the leading suppliers in the area of home electronics and solar power. As warrantor, LG Electronics guarantees the quality of its products through the financial strength of a company with global operations.

Easy installation

16.8 kg
Lightweight & robust

Handling LG modules is impressively easy – from transport through to installation. With each module weighing just 16.8 kg, they are easy to install, nevertheless withstanding mechanical loads of up to 5.400 Pa.

100% EL quality test

EL test

Each LG solar module is put through extensive electroluminescence tests by LG Electronics. This allows us to identify cracks that are invisible to the human eye. If not identified, these could lead to reduced electricity yields.

MonoX™ Black

LG270S1K-B3 / LG265S1K-B3 / LG260S1K-B3

Mechanical Properties

CELLS	6 x 10
CELL VENDOR	LG
CELL TYPE	Monocrystalline
CELL DIMENSIONS	156.5 x 156.5 mm²
# OF BUSBAR	3
GLASS	High transmission tempered glass
DIMENSIONS (L X W X H)	1.640 x 1.000 x 35 (mm)
STATIC SNOW LOAD	5.400 Pa (snow)
STATIC WIND LOAD	2.400 Pa (wind)
WEIGHT	16.8 ± 0.5 kg
CONNECTOR TYPE	MC4, IP67
JUNCTION BOX	IP67 with 3 bypass diodes
LENGTH OF CABLES	2 x 1.000 mm
FRAME	Anodized aluminum

Certifications and Warranty

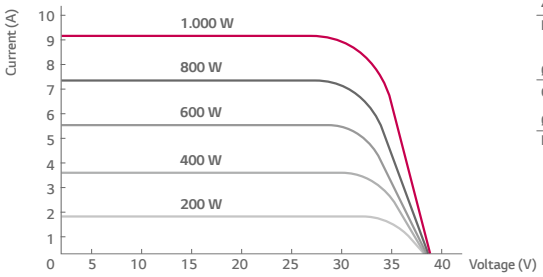
CERTIFICATIONS	IEC 61215, IEC 61701, IEC 61730-1/-2
	DLG-Fokus Test "Ammonia Resistance",
	ISO 9001, ISO 14001, OHSAS 18001
PRODUCT WARRANTY	10 years
OUTPUT WARRANTY OF PMAX (MEASUREMENT TOLERANCE ± 3%)	25 years linear warranty[1]

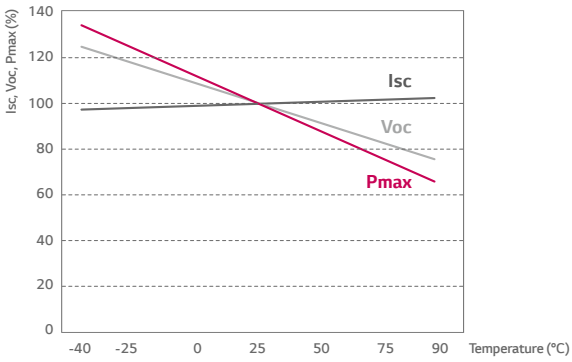
1 1st year: 97%, 2.-25.year: -0,7%/annual degradation, 80,2% for 25 years

Temperature Coefficients

NOCT	47.0 ± 2 °C
PMPP	–0.44 %/K
VOC	–0.31 %/K
ISC	0.05 %/K

Characteristic Curves





Electrical Properties (STC[2])

	270 W	265 W	260 W
MPP VOLTAGE (VMPP)	31.7	31.5	31.2
MPP CURRENT (IMPP)	8.52	8.42	8.34
OPEN CIRCUIT VOLTAGE (VOC)	38.6	38.4	38.2
SHORT CIRCUIT CURRENT (ISC)	9.12	9.03	8.88
MODULE EFFICIENCY (%)	16.5	16.2	15.9
OPERATING TEMPERATURE (°C)	–40 ~ +90		
MAXIMUM SYSTEM VOLTAGE (V)	1.000		
MAXIMUM SERIES FUSE RATING (A)	15		
POWER TOLERANCE (%)	0 ~ +3		

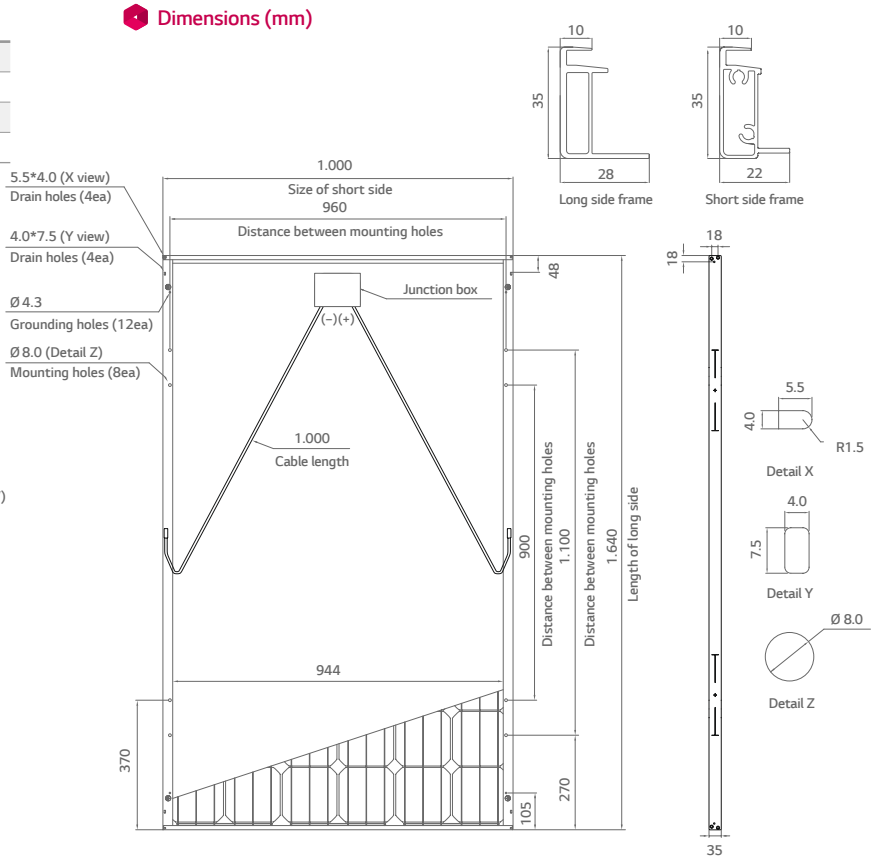
2 STC (Standard Test Conditions): Irradiance 1000 W/m², module temperature 25 °C, AM 1.5
Application Class: A (according to IEC 61730), Safety Class: II
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NOCT[3])

	270 W	265 W	260 W
MAXIMUM POWER PMAX (W)	193	192	189
MPP VOLTAGE VMPP (V)	28.8	28.6	28.3
MPP CURRENT IMPP (A)	6.80	6.72	6.66
OPEN CIRCUIT VOLTAGE VOC (V)	35.5	35.3	35.1
SHORT CIRCUIT CURRENT ISC (A)	7.37	7.30	7.18
EFFICIENCY REDUCTION (FROM 1000 W/M² TO 200 W/M²)	< 4.5 %		

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

Dimensions (mm)



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

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Subject to errors and alterations.
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