





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









KM 564573 BS EN 61215



### **Light and Robust**

With a weight of just 16.8 kg, LG modules are proven to demonstrate outstanding durability against external pressure up to 5400 Pa.



# **Convenient Installation**

LG modules are carefully designed to benefit installers by allowing quick and easy installations throughout the carrying, grounding, and connecting stages of modules.



# 100% EL Test Completed

All LG modules pass Electroluminescence inspection. This EL inspection detects cracks and other imperfections unseen by the naked eye.



### The Extra 2% Power

To minimize losses due to mismatch, LG produces 3 groups of solar modules which are sorted by its current class. This enables MonoX® to maximize the system's output by around 2% based off the theoretical calculation.



### **Reliable Warranties**

LG stands by its products with the strength of a global corporation and sterling warranty policies. LG offers a 10 year product limited warranty and a 25 year limited linear output warranty.



# **Positive Power Tolerance**

LG provides rigorous quality testing to solar modules to assure customers of the stated power outputs of all modules, with a positive nominal tolerance starting at

### **About LG Electronics**



# LG280S1C-B3 / LG275S1C-B3 / LG270S1C-B3

### Mechanical Properties

Cells	6 x 10	
Cell vendor	LG	
Cell type	Monocrystalline	
Cell dimensions	156.5 x 156.5 mm / 6 x 6 in	
# of busbar	3	
Dimensions (L x W x H)	1640 x 1000 x 35 mm	
	64.57 x 39.37 x 1.38 in	
Static snow load	5400 Pa / 113 psf	
Static wind load	2400 Pa / 50 psf	
Weight	16.8 $\pm$ 0.5 kg / 36.96 $\pm$ 1.1 lb	
Connector type	MC4 connector IP 67	
Junction box	IP 67 with 3 bypass diodes	
Length of cables	1000 mm / 39.37 in	
Glass	High transmission tempered glass	
Frame	Anodized aluminum	

### Certifications and Warranty

Certifications	IEC 61215, IEC 61730-1/-2,	
	Salt Mist Corrosion Test (IEC61701),	
	DLG-Fokus Test "Ammonia Resistance",	
	UL 1703, ISO 9001	
Product warranty	10 years	
Output warranty of Pmax (measurement Tolerance ± 3%)	Linear warranty*	

<sup>\* 1) 1</sup>st year. 97%, 2) After 2nd year. 0.7% annual degradation, 3) 80.2% for 25 years

### Temperature Coefficients

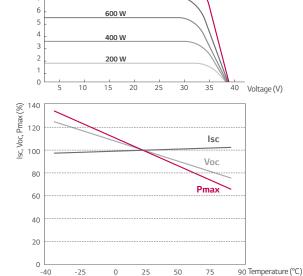
NOCT	45.0 ± 2 ℃	
Pmpp	-0.43 %/°C	
Voc	-0.31 %/℃	
lsc	0.04%/°C	

### Characteristic Curves

1000 W

800 W

Current (A)



### Electrical Properties (STC\*)

	280 W	275 W	270 W
MPP voltage (Vmpp)	31.9	31.7	31.5
MPP current (Impp)	8.78	8.68	8.58
Open circuit voltage (Voc)	38.8	38.7	38.5
Short circuit current (Isc)	9.33	9.26	9.17
Module efficiency (%)	17.1	16.8	16.5
Operating temperature (°C)	-40 ~ +90		
Maximum system voltage (V)	1000 (IEC), 600 (UL)		
Maximum series fuse rating (A)	15		
Power tolerance (%)	0~+3		

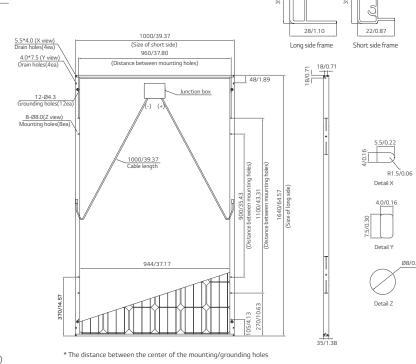
- \* STC (Standard Test Condition): Irradiance 1000 W/m², module temperature 25 °C, AM 1.5
- \* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

## ■ Electrical Properties (NOCT\*)

	280 W	275 W	270 W	
Maximum power (Pmpp)	205	202	198	
MPP voltage (Vmpp)	29.3	29.1	29.0	
MPP current (Impp)	7.00	6.92	6.84	
Open circuit voltage (Voc)	36.0	35.9	35.7	
Short circuit current (Isc)	7.52	7.46	7.39	
Efficiency reduction (from 1000 W/m² to 200 W/m²)	< 4.5 %			

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

### Dimensions (mm/in)





Product specifications are subject to change without notic DS-B3-60-C-G-F-EN-40630



LG Electronics Inc.

Solar Business Division

Seoul Square 541, Namdaemunro 5-ga, Jung-gu, Seoul 100-714, Korea