



MULTI^X™

LG245R1C / LG240R1C / LG235R1C / LG230R1C

With more than half a century of consumer electronics technology and 25 years of in-depth R&D, LG is pleased to introduce its state-of-the-art photovoltaic module, Multi X™. LG Multi X™ modules are perfect for general on-grid applications in residential, commercial and utility services. Built with reliable materials, a unique design and systematic quality assurance, LG is proud to provide its customers with unmatched product value and services.



The LG Mark of Excellence

Customers rest assured of cutting-edge technology and dependability when they see the LG logo on every cell. The LG logo reflects the high standards that have guided LG for more than 50 years.



100% EL Test Completed

All LG modules are tested by Electroluminescence inspection. The EL inspection detects cracks unseen by the naked eye.



25 Years Linear Warranty

LG always stands by its products with sterling warranty policies. The linear performance warranty guarantees at least 80.2% power output by the end of the 25th year.



Frontal and Rear 5400 Pa

LG solar modules are designed with slim and durable glass to be light in weight while also being able to withstand heavy loads up to 5400 Pa.



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 0%.



Screw Type Frame

The Frame, with its screw type structure, minimizes contortion and ensures resistance to expansive pressure, such as earthquakes.

Mechanical Properties

Cells	6 x 10
Cell vendor	LG
Cell type	Multicrystalline
Cell dimensions	156 x 156 mm ² / 6 x 6 in ²
# of busbar	3
Dimensions (L x W x H)	1632 x 986 x 42 mm 64.25 x 38.82 x 1.65 in
Maximum load (Pa)	5400 (113 psf)
Weight	18.4 kg / 41.89 lb
Connector type	MC4 connector IP67
Junction box	IP 65 with 3 bypass diodes
Length of cables	2 x 1000 mm / 2 x 39.37 in

Certifications and Warranty

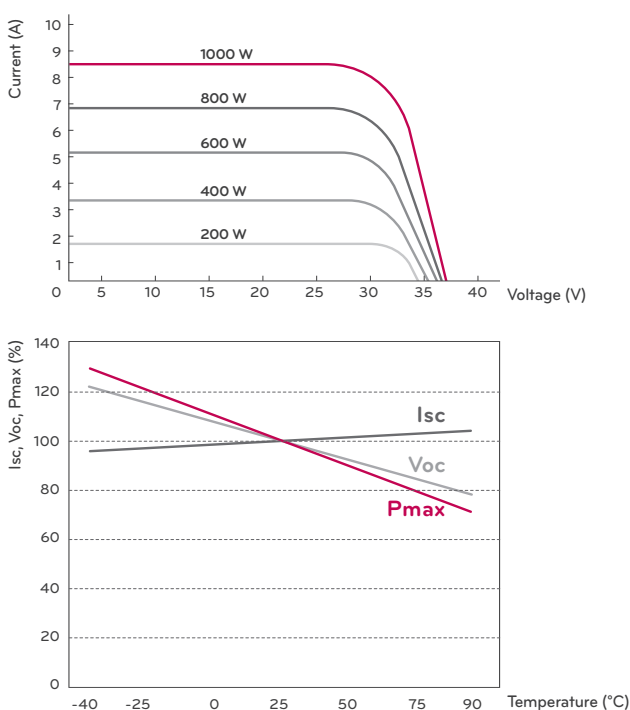
Certifications	IEC 61215, IEC 61730-1/-2, IEC 62716/Draft C, IEC 61701, ISO 9001
Product warranty	10 years
Output warranty of P _{max}	Linear warranty*

* 1) 1st year: 97%, 2) After 2nd year: 0.7% annual degradation, 3) 80.2% for 25 years

Temperature Coefficients

NOCT	45.6 ± 2 °C
P _{mpp}	-0.409 %/K
V _{oc}	-0.319 %/K
I _{sc}	0.067 %/K

Characteristic Curves



Electrical Properties (STC*)

	LG245R1C	LG240R1C	LG235R1C	LG230R1C
Maximum power at STC (P _{max})	245	240	235	230
MPP voltage (V _{mpp})	30.4	30	29.5	29.1
MPP current (I _{mpp})	8.06	8.02	7.97	7.93
Open circuit voltage (V _{oc})	37.5	37.2	36.9	36.6
Short circuit current (I _{sc})	8.74	8.61	8.48	8.35
Module efficiency (%)	15.2	14.9	14.6	14.3
Operating temperature (°C)	-40 ~ +90			
Maximum system voltage (V)	1000			
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

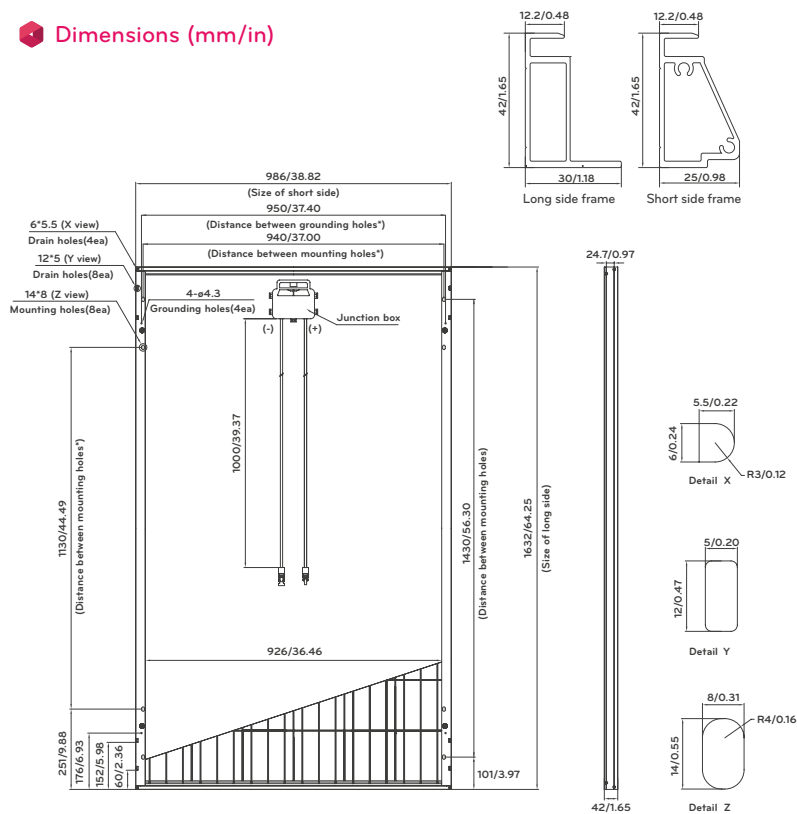
* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NOCT*)

	LG245R1C	LG240R1C	LG235R1C	LG230R1C
Maximum power (W)	181	178	173	170
Maximum power voltage (V)	27.7	27.3	26.8	26.4
Maximum power current (A)	6.54	6.51	6.47	6.44
Open circuit voltage (V _{oc})	34.8	34.5	34.2	33.9
Short circuit current (I _{sc})	7.09	6.98	6.88	6.77
Efficiency reduction (from 1000 W/m ² to 200 W/m ²)	< 4.5 %			

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

Dimensions (mm/in)



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

