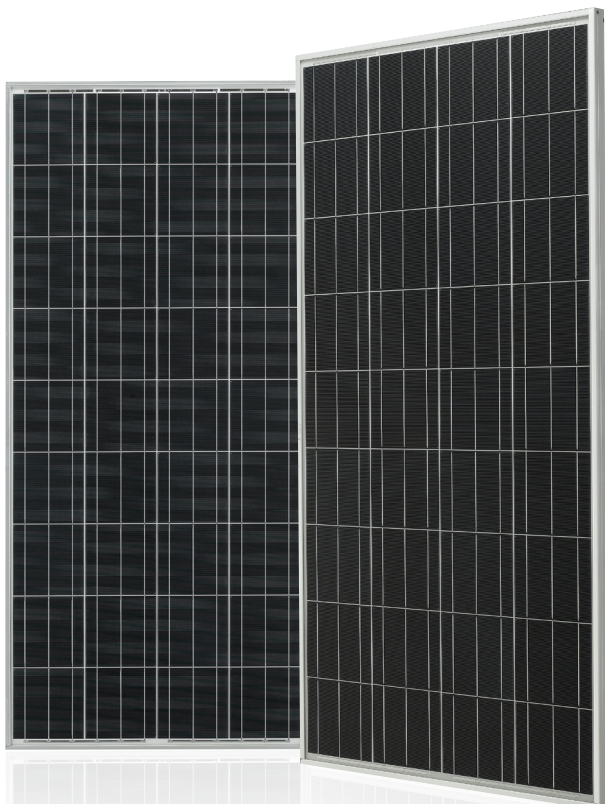


Off-grid Solar Module

LD135R9W / LD130R9W / LD125R9W



With more than half a century of consumer electronics technology and 25 years of in-depth R&D, LG is pleased to introduce its off-grid solar modules.

LG off-grid solar modules are perfect for general off-grid applications in solar home system, telecommunications, water pumping and solar lighting.

Built with reliable materials, a unique design and systematic quality assurance, LG is proud to provide its customers with unmatched product value and services.



LG Cell Technology

With 25 years of devoted and thorough research and development, LG has successfully developed a solar cell that is cutting edge and reliable.



Global Network

LG's worldwide network provides fast response to demand as well as efficient after sales services.



Superior Durability

LG solar modules withstand a maximum load of 5400 Pa, are light in weight and built with glass that is slim yet durable.



Unique Frame Design

LG solar modules are uniquely designed to drain liquid in all slopes and angles.



Warranty & Services

LG off-grid solar module offers a reliable support policy that is comprised of a 2-years product warranty, 10-years 90% power warranty and 20-years 80% power warranty.



Certified Laboratory

LG has met the core standard specifications for solar modules and became the official test laboratory certified by TÜV Rheinland and Underwriters Laboratories.

Off-grid Solar Module

LD135R9W / LD130R9W / LD125R9W

Mechanical Properties

Cells	4 x 9
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)	1474 x 668 x 42 mm 58.03 x 26.30 x 1.65 in
Maximum load (Pa)	5400 (113 psf)
Weight	12.4 ± 1.0 kg / 27.34 ± 2.2 lb
Connector type	Yukita, IP67
Junction box	Yukita with 2 bypass diodes, IP65
Length of cables	2 x 1000 mm / 2 x 39.37 in

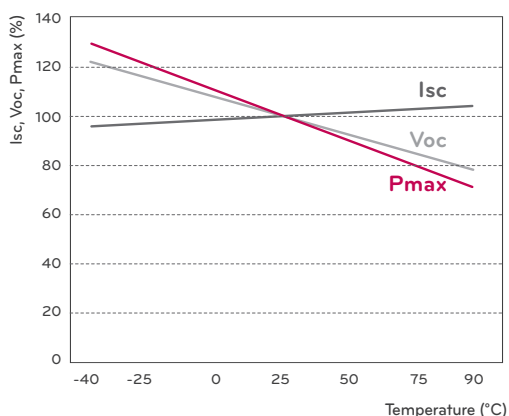
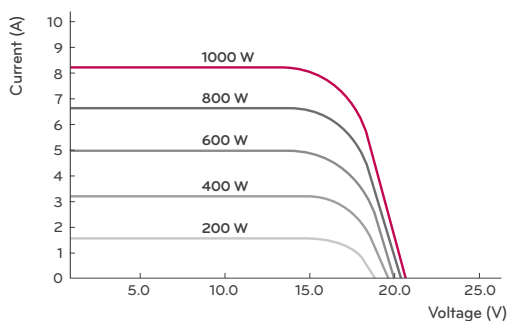
Certifications and Warranty

Certifications	IEC 61215 Ed.2, IEC 61730
Product warranty	2 years
Output warranty of Pmax	10 years – 90% 20 years – 80%

Temperature Coefficients

NOCT	45.7 ± 2 °C
Pmpp	-0.435 %/K
Voc	-0.0728 V/K, -0.335 %/K
Isc	6.02 mA/K, 0.073 %/K

Characteristic Curves



Electrical Properties (STC*)

	LD135R9W	LD130R9W	LD125R9W
Maximum power at STC (Pmax)	135	130	125
MPP voltage (Vmpp)	17.25	17.05	17.00
MPP current (Impp)	7.90	7.77	7.55
Open circuit voltage (Voc)	21.80	21.69	21.62
Short circuit current (Isc)	8.41	8.27	8.03
Module efficiency (%)	13.7	13.2	12.7
Operating temperature (°C)	-40 ~ +90		
Maximum system voltage (V)	1000		
Maximum series fuse rating (A)	15		
Power tolerance (%)	-5 ~ +5		

* 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*)

	LD135R9W	LD130R9W	LD125R9W
Maximum power (W)	98.23	95.37	92.37
Maximum power voltage (V)	15.54	15.34	15.29
Maximum power current (A)	6.32	6.22	6.04
Open circuit voltage (Voc)	19.99	19.88	19.81
Short circuit current (Isc)	6.83	6.72	6.52
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)

