

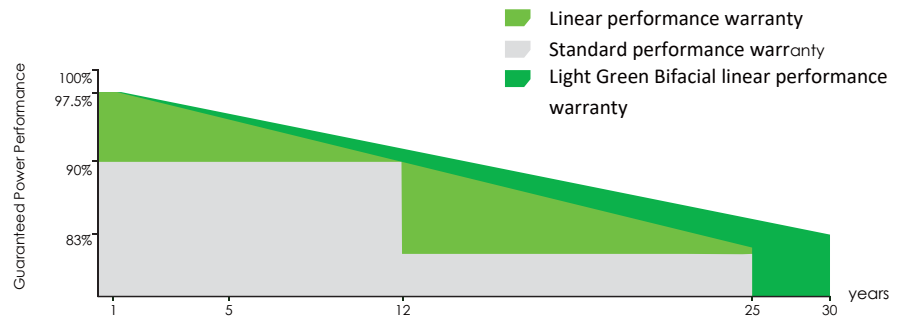
LG-540BF

Dual-glass Monocrystalline Solar Module

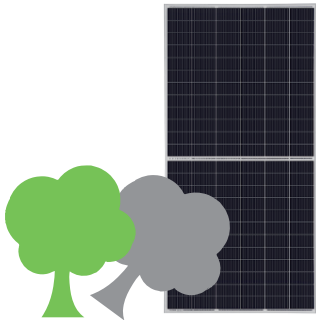
144 cells / MBB / Bifacial Module PERC / 1500V DC / 20.9% Efficiency

LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 30 Year Linear Power Warranty
0.5% Annual Degradation Over 30 years



Cell Module



Key Features

Ultra-high Power Output

$$+ \frac{W}{m^2}$$

MBB mono PERC cell technology, Half-cut cell layout, lower R_s loss and thermal coefficients, Bifacial cell, additional 5%-30% more yield



Ultra-high Reliability

Dual-glass design with POE encapsulant, no PID risk, stringent internal quality control



Excellent low-light performance

Excellent low-light performance on cloudy days mornings and evenings



Advanced Glass

Our high-transmission glass features a unique anti-reflective coating that directs more light on the solar cells, resulting in a higher energy yield.



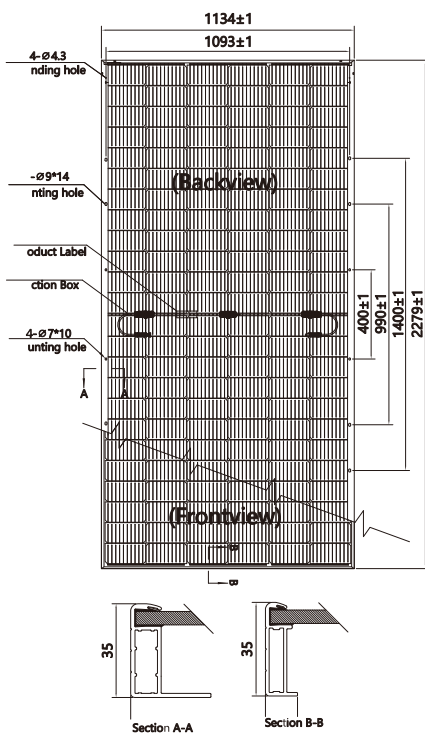
High fire class

Fire class C Certified, minimize the fire risk of the system



Certified to withstand challenging environments

2400 Pa wind load, 5400 Pa snow load, 25 mm hailstones at 82 km/h



Product parameters

ELECTRICAL PERFORMANCE			
Electrical parameters at Standard Test Conditions (STC) and at Nominal Operating Cell Temperature (NOCT)			
	STC	NOCT	
Maximum Power - Pmax (Wp)	540	403.26	
Power output tolerance (%)	±4.99	±4.99	
Module efficiency (%)	20.9	20.9	
Voltage at Pmax - Vmp (V)	41.7	39.0	
Current at Pmax - Imp (A)	12.95	10.34	
Open-circuit voltage - Voc (V)	50.0	46.6	
Short-circuit current - Isc (A)	13.80	11.12	
Bifacial Output-Rearside Power Gain			
5%	Maximum Power - Pmax (Wp)	567	
	Module efficiency STC (%)	21.94	
15%	Maximum Power - Pmax (Wp)	621	
	Module efficiency STC (%)	24.03	
25%	Maximum Power - Pmax (Wp)	675	
	Module efficiency STC (%)	26.12	
THERMAL CHARACTERISTICS			
Nominal operating cell temperature	NOCT	°C	41+/-3
Temperature coefficient of Pmax	γ	%/°C	-0.35
Temperature coefficient of Voc	β_{Voc}	%/°C	-0.27
Temperature coefficient of Isc	α_{Isc}	%/°C	0.048
OPERATING CONDITIONS			
Max. system voltage	1500VDC		
Max. series fuse rating *	25A		
Operating temperature range	-40°C to 85°C		
Mechanical Load, Push/Pull	5400Pa/2400Pa		
Max. hailstone impact (diameter / velocity)	25mm / 23 m/s		
STC: open-circuit module operation temperature at 1000W/m2 irradiance, 25°C ambient temperature, 1.5 AM, 0m/s wind speed. NOCT: open-circuit module operation temperature at 800W/m2 irradiance, 20°C ambient temperature, 1.5 AM, 1m/s wind speed. *DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection			
CONSTRUCTION MATERIALS			
Front cover (material / thickness)	Anti-Reflection, Coating, High Transmission, heat strengthened glass. 2.00 mm		
Cell (quantity / material / number of busbars)	PERC Mono 144 [2x(12x6)]		
Frame (material)	Anodized aluminum alloy		
Junction box (protection degree)	IP68		
Cable (length / cross-sectional area)	TÜV 1x4.0mm ² , Length 400mm/300mm or Customized Length		
GENERAL CHARACTERISTICS			
Dimensions (L / W / H)	2279mm / 1134 mm / 35mm		
Weight	34.2kg		



ISO9001
ISO14001
OHSAS18001
IEC TS 62941



Made by a:



Manufacturer