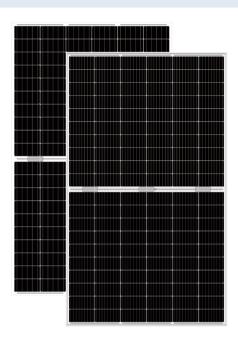
YLM GG 120CELL



22.5%
CELL EFFICIENCY

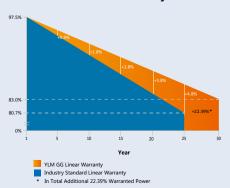
12 YEAR

PRODUCT WARRANTY

0 to +5W

POWER SELECTION TOLERANCE

30 Years Linear Warranty



YINGLISOLAR.COM



DOUBLED STRENGTH

FOR MULTIPLIED RELIABILITY

Whenever the conditions are requiring a more robust solution, our modules are the right choice. Carefully chosen materials, state of the art solar cells and our experience in manufacturing to ensure high product quality.



Bifacial Power

In contrast to conventional modules, YLM GG modules can generate energy from both sides. As the backside makes use of the reflected and scattered light from the surroundings, these modules could yield significantly more power, depending upon the albedo.



High Yield

YLM GG modules often generate more energy due to their low LID and the temperature coefficient of p-type monocrystalline silicon solar cells.



W Higher Bifaciality

Imagine a solar module flipped upside down with its back to the sun. The amount of power that it can still produce is compared against the nameplate badge, which is the bifacialilty factor. A major advantage of choosing YLM GG modules is that the backside will perform at an industry leading of the p-type bifacial modules.



Higher Durability

The double glass construction improves the long-term mechanical performance of the module. Furthermore, YLM GG modules work well in muggy conditions, and independently tested for harsh environmental conditions, such as exposure to salt mist, ammonia, dust or known PID risk factors.



Optimal Self-cleaning

Choose our frameless "DL" module for optimal self-cleaning.



Mechanical Performance

Choose our specially designed aluminium framed "DF" module for enhanced mechanical performance and more ease of use in traditional installation methods.

Yingli Solar

Founded in 1987, Yingli Energy (China) Company Limited, known as "Yingli Solar", is one of the world's oldest leading solar panel manufacturers with the mission to provide affordable green energy for all. Yingli Solar makes solar power possible for communities everywhere by using our global manufacturing and logistics expertise to address unique local challenges.

YLM GG 120CELL

ELECTRICAL PERFORMANCE



Module type	120DL (120 cell, p-type mono-Si, frameless): YLxxxDL60 1/2 (xxx=Pmax) 120DF (120 cell, p-type mono-Si, framed): YLxxxDF60 1/2 (xxx=Pmax)							
Electrical Parameters at Standard Test Conditions (STC)								
Power output	P _{max}	W	380	375	370	365	360	355
Voltage at P _{max}	$V_{_{Pmax}}$	٧	34.93	34.66	34.39	34.12	33.84	33.56
Current at P _{max}	I _{Pmax}	Α	10.88	10.82	10.76	10.70	10.64	10.58
Open-circuit voltage	V _{oc}	٧	41.70	41.40	41.10	40.80	40.50	40.20
Short-circuit current	l _{sc}	Α	11.50	11.44	11.38	11.32	11.26	11.20
Power output tolerance	ΔP_{max}	W	0/+5					
Module efficiency@120DL	H _{Pmax}	%	21.05	20.78	20.50	20.22	19.94	19.67
Module efficiency@120DF	η _{Pmax}	%	20.86	20.59	20.31	20.04	19.76	19.49
Electrical Parameters at Nominal Module Operating Temperature (NMOT)								
Power output	P _{max}	W	289.13	285.32	281.52	277.76	273.93	270.13
Voltage at P _{max}	V _{Pmax}	V	33.31	33.05	32.80	32.54	32.27	32.01
Current at P _{max}	l _{Pmax}	Α	8.68	8.63	8.58	8.54	8.49	8.44
Open-circuit voltage	V _{oc}	V	39.55	39.26	38.98	38.70	38.41	38.13
Short-circuit current	l _{sc}	Α	9.25	9.20	9.15	9.11	9.06	9.01
Bifacial Power Output (Backside Power Gain)								
Power output (power gain 10%)	P _{max10}	W	418	413	407	402	396	391
Power output (power gain 15%)	P _{max15}	W	437	431	426	420	414	408
Power output (power gain 25%)	P _{max25}	W	475	469	463	456	450	444
Other Characteristics								
Nominal module operating temperature	NMOT	°C	39±2	Temperature c	oefficient of I _{sc}	$\alpha_{_{lsc}}$	%/°C	0.04
Bifaciality factor	ф	%	70±5	Temperature c	oefficient of V _{oc}	$\beta_{\text{\tiny Voc}}$	%/°C	-0.30
Measurement tolerance of Pmax,	oc and Isc	%	±3	Temperature o	coefficient of P _{max}	\mathbf{Y}_{Pmax}	%/°C	-0.35

 $STC: 1000W \cdot m^2 \ irradiance, 25^{\circ}C \ cell \ temperature, AM1.5 \ spectrum \ according \ to \ EN \ 60904-3.$ $NMOT: \ temperature \ near \ maximum \ power \ point \ at \ 800W \cdot m^2 \ irradiance, 20^{\circ}C \ ambient \ temperature, \ 1m-s^3 \ wind \ speed.$

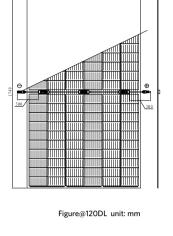
OPERATING CONDITIONS		CONSTRUCTION MATERIALS		
Max. system voltage	1500V _{DC}	Cell (material / number)	p-type mono-Si / 6 x 20	
Max. series fuse rating*	20A	Glass (material / thickness)	low-iron semi-tempered glass / 2.0mm x 2	
Operating temperature range	-40°C to 85°C	Frame (120DL / 120DF)	none / anodized aluminium alloy	
Hailstone impact (diameter / velocity)	25mm / 23m·s ⁻¹	Junction box (type / protection degree)	3 diodes / ≥ IP67	
Snow load, front (120DL / 120DF)	3000Pa / 5400Pa	Cable (length / cross-sectional area)	300mm, can be customized / 4mm²	
Wind load, back 2400Pa / 2400Pa (120DL / 120DF)		Plug connector (type / protection degree)	match the junction box / IP67	

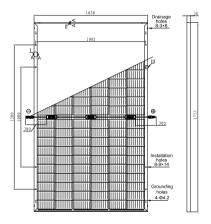
^{*}DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection.

PACKAGING SPECIFICATIONS

Packaging Specifications@120DL		Packaging Specifications@120DF		
Dimensions (L/W/H)	1749mm / 1032mm / 5mm	Dimensions (L / W / H)	1755mm / 1038mm / 30mm	
Weight	21.6kg	Weight	23.2kg	
Number of modules per pallet	36	Number of modules per pallet	36	
Number of pallets per 40' container*	24	Number of pallets per 40' container*	26	
Packaging pallets dimensions (L / W / H) 1870mm / 1138mm / 1215mm		Packaging pallets dimensions (L / W / H)	1770mm / 1110mm / 1190mm	
Pallet weight 844kg		Pallet weight	872kg	

^{*}Truck transport is prohibited to exceed its maximum load.







Figure@120DF unit: mm

QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, CE, ISO 9001: 2015, ISO 14001: 2015, BS OHSAS 18001: 2007









- \bullet Due to continuous innovation, research and product improvement, the specifications in this product information sheet are subject to change without prior notice. The specifications may deviate slightly and are not guaranteed.
- The data does not refer to a single module and they are not part of the offer, they only serve for comparison to different module types. The company reserves the final right to explain any of the data included
- · Proudly made in China.



DS_YLM GG 120CELL_EU_EN_20200915_V0402 166mm

Warning: Read the Installation and User Manual in its entirety before handling, installing and operating Yingli Solar modules.