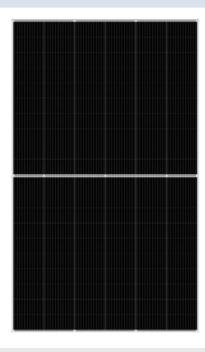
YLM GG 120CELL



UP TO 21.38%

MODULE EFFICIENCY

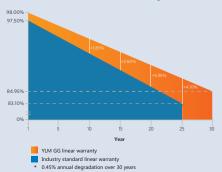
12 YEAR

PRODUCT WARRANTY

0 to +5W

POWER SELECTION TOLERANCE

30 Years Linear Warranty



YINGLISOLAR.COM/AU



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.



V 120 Cell Design

With double the standard amount of cells, we have increased the performance of the module. Each cell operates cooler as they now carry just half the amount of current in the same conditions. This design effectively deals with shadow and improves performance by reducing degradation.



Longterm Durability

The multi-busbar cells encapsulated between a double layer of glass can decrease the risk of cell micro-cracks by improving the long term mechanical performance.



Fire Resistant

The double glass construction is our most fire resistant product design achieving an industry leading Fire Class A rating.



Mechanical Performance

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



Polyolefin (POE) Encapsulation

Polyolefin (POE) hydrophobic encapsulation for increased durability and long term performance in high heat and humid environments.

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



MODULE TYPE

120DF (120 cell, p-type mono-Si, framed): YLxxxDF60 f/2 (xxx=Pmax)

TIFE								
Electrical Parameters at STC								
Power output	P _{max}	W	580	585	590	595	600	605
Voltage at P _{max}	V _{Pmax}	V	33.70	33.90	34.10	34.30	34.50	34.70
Current at P _{max}	IP _{max}	А	17.21	17.26	17.31	17.35	17.39	17.44
Open-circuit voltage	Voc	V	40.70	40.90	41.10	41.30	41.50	41.70
Short-circuit current	Isc	А	18.23	18.28	18.32	18.45	18.51	18.56
Power output tolerance	ΔP_{max}	w	0/+5					
Module efficiency	NPmax	%	20.49	20.67	20.85	21.02	21.20	21.38
Electrical Parameters at NMOT								
Power output	P _{max}	w	435.60	439.36	443.11	446.87	450.62	454.38
Voltage at P _{max}	V _{Pmax} ′	V	31.64	31.82	32.00	32.20	32.39	32.57
Current at P _{max}	IP _{max} ′	А	13.77	13.81	13.85	13.88	13.91	13.95
Open-circuit voltage	Voc	V	37.83	38.01	38.20	38.38	38.57	38.76
Short-circuit current	lsc'	А	14.69	14.73	14.76	14.87	14.91	14.95
Bifacial Electrical Parameters at STC*								
Power output	P _{max"}	w	634.81	640.28	645.76	651.23	656.70	662.17
Voltage at P _{max"}	V _{Pmax} "	V	33.70	33.90	34.10	34.30	34.50	34.70
Current at P _{max"}	IP _{max''}	А	18.84	18.89	18.94	18.99	19.03	19.08
Open-circuit voltage	V _{oc"}	V	40.70	40.90	41.10	41.30	41.50	41.70
Short-circuit current	lsc"	А	19.95	20.01	20.05	20.19	20.26	20.31
Other Characteristics								
Bifaciality coefficient	ф	%	70 ± 5		e coefficient Isc	C lsc	%/°C	0.04
Nominal module operating temperature	NMOT	°C	43 ± 2		e coefficient Voc	βvoc	%/°C	- 0.25
Measurement tolerance of Voc and Isc		%	±3	Temperature coefficient of Pmax		YPmax	%/°C	- 0.34

STC: $1000\ W\ m^2$ irradiance, $25\ ^\circ C$ cell temperature, AM 1.5 spectrum according to EN 60904-3. NMOT: temperature near maximum power point at 800 W·m² irradiance, $20\ ^\circ C$ ambient temperature, $1\ m\cdot s^3$ wind speed. *Bifaciality coefficient is 70%, rear irradiance is $135\ W\ m^2$.

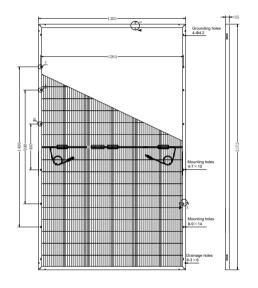
OPERATING CONDITIONS		CONSTRUCTION MATERIALS		
Max. system voltage	1500 Vpc	Cell (material / number)	p-type mono-Si / 2 x 6 x 10	
Max. series fuse rating*	35 A	Glass (material / thickness)	low-iron semi-tempered glass / 2.0 mm	
Operating temperature range	- 40 °C to 85 °C	Frame (type)	anodized aluminium alloy	
Snow load, front	5400 Pa	Cable (length / cross-sectional area)	± 300 mm, can be customized / 4 mm²	
Wind load, back	2400 Pa	Plug connector (type)	Staubli EVO2 or Yitong YT18-01 or Renhe RHC2	
Hailstone impact (diameter / velocity)	25 mm / 23 m·s ⁻¹	Junction box (type / protection degree)	3 diodes / ≥ IP67	

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

PACKAGING SPECIFICATIONS

Packaging Specifications@120DF				
Dimensions (L/W/H)	2172 mm / 1303 mm / 35 mm			
Weight	35.1 kg			
Number of modules per pallet	31			
Number of pallets per 40' container*	17			
Packaging pallets dimensions (L / W / H)	1340 mm / 1140 mm / 2290 mm			
Pallet weight	1140 kg			

^{*}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









 $\cdot \, \mathsf{Due} \; \mathsf{to} \; \mathsf{continuous} \; \mathsf{innovation,} \; \mathsf{research} \; \mathsf{and} \; \mathsf{product} \; \mathsf{improvement,} \; \mathsf{the} \; \mathsf{specifications} \; \mathsf{in} \; \mathsf{this} \; \mathsf{product} \; \mathsf{information} \; \mathsf{this} \; \mathsf{product} \; \mathsf{product} \; \mathsf{this} \; \mathsf{product} \; \mathsf{produ$ 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 here.



 $\mbox{\it Warning:}$ Read the Installation and User Manual in its entirety before handling, installing and operating Yingli Solar modules.