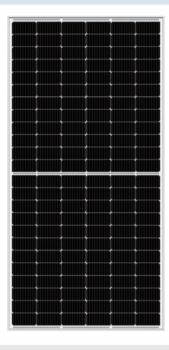
YLM-J GG 144CELL



22.8% CELL EFFICIENCY

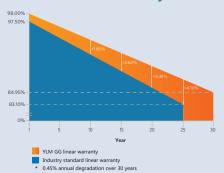
12 YEAR

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.



Higher 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.



Mechanical Performance

Choose our specially designed aluminium framed YLM GG modules 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.





MODULE TYPE

144DF (144 cell, p-type mono-Si, framed): YLxxxDF72 e/2 (xxx=Pmax)

Electrical Parameters at STC								
Power output	P _{max}	w	530	535	540	545	550	555
Voltage at P _{max}	V _{Pmax}	V	41.30	41.45	41.60	41.75	41.90	42.05
Current at P _{max}	I _{Pmax}	А	12.84	12.91	12.99	13.06	13.13	13.20
Open-circuit voltage	Voc	V	49.15	49.30	49.45	49.60	49.75	49.90
Short-circuit current	Isc	А	13.76	13.83	13.90	13.97	14.04	14.11
Power output tolerance	ΔP _{max}	w	0/+5					
Module efficiency	NPmax	%	20.48	20.67	20.87	21.06	21.25	21.45
Electrical Parameters at NMOT								
Power output	P _{max} ,	w	403.45	407.12	411.12	414.83	418.55	422.29
Voltage at P _{max}	V _{Pmax}	V	39.39	39.53	39.67	39.82	39.96	40.10
Current at P _{max}	I _{Pmax} ′	А	10.24	10.30	10.36	10.42	10.47	10.53
Open-circuit voltage	Voc	V	46.72	46.87	47.01	47.15	47.29	47.44
Short-circuit current	lsc'	А	11.09	11.14	11.20	11.25	11.31	11.37
Bifacial Electrical Parameters at STC*								
Power output	P _{max''}	w	580.09	585.56	591.03	596.50	601.98	607.45
Voltage at P _{max}	V _{Pmax''}	V	41.30	41.45	41.60	41.75	41.90	42.05
Current at P _{max"}	IP _{max} "	А	14.05	14.13	14.21	14.29	14.37	14.45
Open-circuit voltage	Voc"	V	49.15	49.30	49.45	49.60	49.75	49.90
Short-circuit current	Isc"	А	15.06	15.14	15.21	15.29	15.37	15.44
Other Characteristics								
Bifaciality coefficient	ф	%	70 ± 5	Temperatur of ls:	e coefficient	αlsc	%/°C	0.05
Nominal module operating temperature	NMOT	°C	39 ± 2	Temperatur of V _{oc}	e coefficient	βvoc	%/°C	- 0.28
Measurement tolerance of Voc and	d Isc	%	±3	Temperatur of P _{max}	re coefficient	YPmax	%/°C	- 0.35

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 $135\ W\ m^2$.

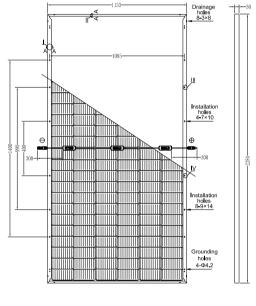
OPERATING CONDITIONS		CONSTRUCTION MATERIALS		
Max. system voltage	1500 Vpc	Cell (material / number)	p-type mono-Si / 2 x 6 x 12	
Max. series fuse rating*	30 A	Glass (material / thickness)	low-iron semi-tempered glass / 2.0 mm	
Operating temperature range	- 40 °C to 85 °C	Frame (type)	anodized aluminium 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)	match the junction box	
Hailstone impact (diameter / velocity)	25 mm / 23 m·s ⁻¹	Junction box (type / protection degree)	3 diodes / ≥ IP67	

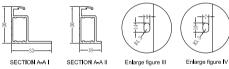
^{*}DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection.

PACKAGING SPECIFICATIONS

Packaging Specifications@144DF				
Dimensions (L / W / H)	2284 mm / 1133 mm / 30 mm			
Weight	32.5 kg			
Number of modules per pallet	36			
Number of pallets per 40' container*	20			
Packaging pallets dimensions (L / W / H)	2300 mm / 1110 mm / 1245 mm			
Pallet weight	1225 kg			

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





Figure@144DF unit: mm

QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, CE

ISO 9001: 2015, ISO 14001: 2015, BS OHSAS 18001: 2007









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 $\cdot \text{The data does not refer to a single module and they are not part of the offer, they only serve for comparison to differ the option of the offer of the option of the offer of the option of the$ ent 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.