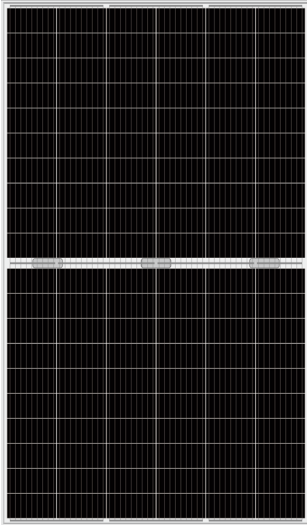


**YLM  
GG  
120CELL**

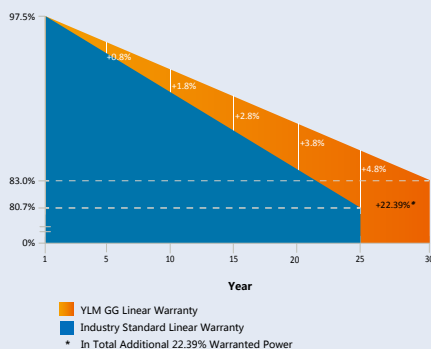


**22.5%**  
CELL EFFICIENCY

**12 YEAR**  
PRODUCT WARRANTY

**0 to +5W**  
POWER SELECTION TOLERANCE

**30 Years Linear Warranty**



# 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.



**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 bifaciality 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): YLxxxDG2530L-2 1/2 (xxx=Pmax) 120DF (120 cell, p-type mono-Si, framed): YLxxxDG2530F-2 1/2 (xxx=Pmax)
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Electrical Parameters at Standard Test Conditions (STC)								
Power output	$P_{max}$	W	345	340	335	330	325	320
Voltage at $P_{max}$	$V_{Pmax}$	V	34.75	34.45	34.15	33.85	33.54	33.23
Current at $P_{max}$	$I_{Pmax}$	A	9.93	9.87	9.81	9.75	9.69	9.63
Open-circuit voltage	$V_{oc}$	V	41.20	40.95	40.70	40.45	40.20	39.95
Short-circuit current	$I_{sc}$	A	10.46	10.40	10.34	10.28	10.22	10.16
Power output tolerance	$\Delta P_{max}$	W	0 / +5					
Module efficiency@120DL	$\eta_{Pmax}$	%	20.25	19.96	19.67	19.37	19.08	18.79
Module efficiency@120DF	$\eta_{Pmax}$	%	20.06	19.77	19.48	19.19	18.90	18.61

Electrical Parameters at Nominal Module Operating Temperature (NMOT)								
Power output	$P_{max}$	W	262.14	258.31	254.50	250.72	246.90	243.10
Voltage at $P_{max}$	$V_{Pmax}$	V	33.00	32.71	32.43	32.14	31.85	31.56
Current at $P_{max}$	$I_{Pmax}$	A	7.94	7.90	7.85	7.80	7.75	7.70
Open-circuit voltage	$V_{oc}$	V	39.07	38.84	38.60	38.36	38.13	37.89
Short-circuit current	$I_{sc}$	A	8.43	8.38	8.33	8.28	8.23	8.18

Bifacial Power Output (Backside Power Gain)								
Power output (power gain 10%)	$P_{max10}$	W	380	374	369	363	358	352
Power output (power gain 15%)	$P_{max15}$	W	397	391	385	380	374	368
Power output (power gain 25%)	$P_{max25}$	W	431	425	419	413	406	400

Other Characteristics								
Nominal module operating temperature	NMOT	°C	39±2	Temperature coefficient of $I_{sc}$	$\alpha_{Isc}$	% / °C	0.05	
Bifaciality factor	$\phi$	%	70±5	Temperature coefficient of $V_{oc}$	$\beta_{Voc}$	% / °C	-0.30	
Measurement tolerance of $P_{max}$ , $V_{oc}$ and $I_{sc}$		%	±3	Temperature coefficient of $P_{max}$	$\gamma_{Pmax}$	% / °C	-0.36	

STC: 1000W·m<sup>-2</sup> irradiance, 25°C cell temperature, AM1.5 spectrum according to EN 60904-3.  
NMOT: temperature near maximum power point at 800W·m<sup>-2</sup> irradiance, 20°C ambient temperature, 1m·s<sup>-1</sup> wind speed.

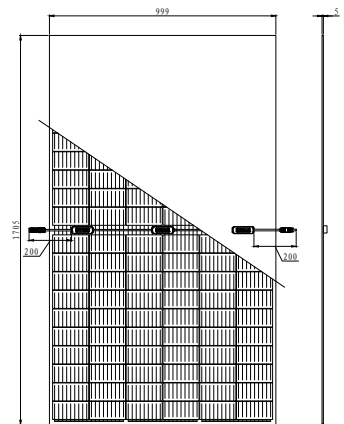
OPERATING CONDITIONS		CONSTRUCTION MATERIALS	
Max. system voltage	1500V <sub>DC</sub>	Cell (material / number)	p-type mono-Si / 2 x 6 x 10
Max. series fuse rating*	20A	Glass (material / thickness)	low-iron semi-tempered glass / 2.0mm x 2
Operating temperature range	-40°C to 85°C	Frame (120DL / 120DF)	none / anodized aluminium alloy
Hailstone impact (diameter / velocity)	25mm / 23m·s <sup>-1</sup>	Junction box (type / protection degree)	3 diodes / ≥ IP67
Snow load, front (120DL / 120DF)	3000Pa / 5400Pa	Cable (length / cross-sectional area)	200mm, can be customized / 4mm <sup>2</sup>
Wind load, back (120DL / 120DF)	2400Pa / 2400Pa	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.

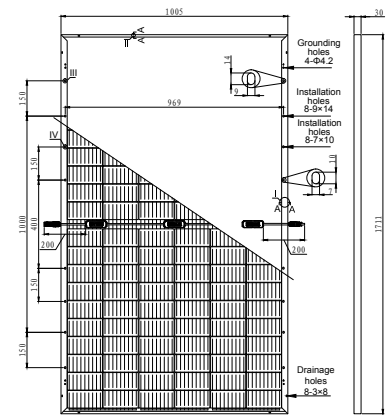
## PACKAGING SPECIFICATIONS

Packaging Specifications@120DL		Packaging Specifications@120DF	
Dimensions (L / W / H)	1705mm / 999mm / 5mm	Dimensions (L / W / H)	1711mm / 1005mm / 30mm
Weight	20.4kg	Weight	22.0kg
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)	1832mm / 1138mm / 1182mm	Packaging pallets dimensions (L / W / H)	1725mm / 1110mm / 1157mm
Pallet weight	800kg	Pallet weight	826kg

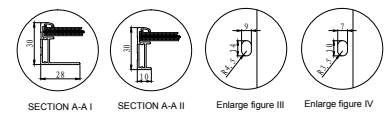
\*Truck transport is prohibited to exceed its maximum load.



Figure@120DL unit: mm



Figure@120DF 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.
- 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.
- Proudly made in China.



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

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