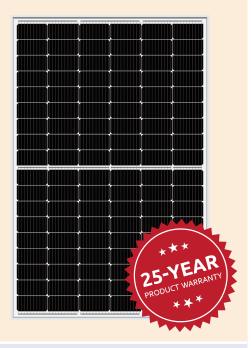


YLM-J 3.0 PRO 415 W



108 CELLS

0-5 W POWER TOLERANCE



YINGLISOLAR.COM/AU

YINGLI SOLAR

DUAL POWER MAXIMISED YIELD

YLM 3.0 modules use high efficiency p-type monocrystalline PERC cell technology. With high-quality encapsulation materials and excellent glass-glass structure, YLM 3.0 modules are perfectly suited to the harsh environment and provide you with high reliability and quality assurance.



Backside Yield

The backside of the module effectively uses reflected and scattered light from the environment to generate electricity. Superior backside power generation reduces LCOE.



Superior Yield

The large cell size enhances the module's power output, while the excellent temperature coefficient and comprehensive suppression technology allows the module to generate more energy yield once in use.



Excellent Durability

The modules meet IEC standard testing requirements and are built to withstand the harsh Australian environment.



Wide Applications

The glass-glass structure, special material selection and extra-strong frames effectively enhance the mechanical performance of the modules, their compatibility with mainstream trackers and inverters, and their adaptability to harsh environments.



Lower Losses

The multi-busbar design effectively reduces the impact of micro-cracks and broken busbars, and the half-cell structure effectively reduces the impact of shadow shading.

QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, CE, UL 61730, IEC 62941:2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing, ISO 9001:2015 Quality management systems, ISO 14001:2015 Environmental management systems, ISO 45001:2018 Occupational health and safety management systems











Yingli Solar

Headquartered in Baoding, China, Yingli Energy Development Company Limited, known as Yingli Solar, is a leading solar solution provider. Yingli Solar is committed to providing clean, renewable energy through PV power generation technology for homes, factories and utilities around the world. Yingli Solar provides reliable products and services through continuous technological advancement and management innovation.

YLM-J 3.0 PRO



Electrical parameters at Standard Test Conditions (STC*)

Module type			YLxxxDF54 e/2 (xxx=Pmax)					
Power output	P _{max}	W	390	395	400	405	410	415
Power output tolerances	ΔP _{max}	W	0/+5					
Module efficiency	$\eta_{_m}$	%	19.97	20.23	20.48	20.74	21.00	21.25
Voltage at P _{max}	V _{mpp}	٧	30.27	30.42	30.56	30.71	30.86	31.00
Current at P _{max}	I _{mpp}	А	12.89	12.99	13.09	13.19	13.29	13.39
Open-circuit voltage	V _{oc}	٧	36.80	36.90	37.00	37.10	37.20	37.30
Short-circuit current	l _{sc}	А	13.68	13.77	13.86	13.95	14.04	14.13

^{*}STC: 1000 W·m² irradiance, 25°C cell temperature, AM 1.5 spectrum according to EN 60904-3. Measurement tolerance of $P_{max}V_{ce}$ and I_{ce} is ±3%.

Electrical parameters at Nominal Operating Cell Temperature (NOCT*)

Power output	P _{max}	W	296.85	300.63	304.34	308.17	312.03	315.80
Voltage at P _{max}	V _{mpp}	٧	28.87	29.01	29.14	29.29	29.43	29.56
Current at P _{max}	I _{mpp}	А	10.28	10.36	10.44	10.52	10.60	10.68
Open-circuit voltage	V _{oc}	٧	34.98	35.08	35.17	35.27	35.36	35.46
Short-circuit current	l _{sc}	А	11.02	11.09	11.17	11.24	11.31	11.38

^{*}NOCT: open-circuit module operation temperature at 800 W·m² irradiance, 20°C ambient temperature, 1 m·s² wind speed.

Bifacial electrical parameters at Standard Test Conditions (STC*)

Power output	P _{max}	W	426.86	432.33	437.80	443.27	448.75	454.22
Voltage at P _{max}	V _{mpp}	٧	30.27	30.42	30.56	30.71	30.86	31.00
Current at P _{max}	I _{mpp}	А	14.10	14.21	14.33	14.43	14.54	14.65
Open-circuit voltage	V _{oc}	٧	36.80	36.90	37.00	37.10	37.20	37.30
Short-circuit current	I _{sc}	А	14.97	15.07	15.17	15.27	15.37	15.47

^{*}Bifaciality coefficient is 80% \pm 5%, rear irradiance is 135 W·m $^{\circ}$ 2.

THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	39 ± 2		
Temperature coefficient of P _{max}	γ	%/°C	- 0.35		
Temperature coefficient of V _{oc}	β	%/°C	- 0.28		
Temperature coefficient of I _{sc}	α	%/°C	0.05		

OPERATING CONDITIONS

. system voltage	1500 V _{DC}
. series fuse rating*	25 A
rating temperature range	- 40°C to 85°C
. static load, front (e.g., snow)	5400 Pa
static load, back (e.g., wind)	2400 Pa
. hailstone impact (diameter / velocity)	25 mm / 23 m·s¹
static load, front (e.g., snow) static load, back (e.g., wind)	5400 Pa 2400 Pa

^{*}DO NOT CONNECT FUSE IN COMBINER BOX WITH TWO OR MORE STRINGS IN PARALLEL CONNECTION.

CONSTRUCTION MATERIALS

Cell (material / quantity)	p-type monocrystalline silicon / 6×18
Glass (material / thickness)	low-iron semi-tempered glass / 2.0 mm (front), 2.0 mm (back)
Frame (material)	anodised aluminum alloy
Junction box (type / protection degree)	3 bypass diodes / ≥ IP68
Plug connector (type)	Staubli EVO2 or Yitong YT18-01 or Renhe RHC2
Cable (length / cross-sectional area)	± 1200 mm / 4 mm²

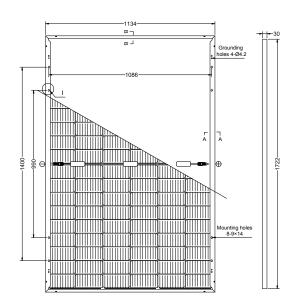
GENERAL CHARACTERISTICS

Dimensions (L / W / H)	1722 mm / 1134 mm / 30 mm			
Weight	24.8 kg			
Fire resistance rating	Class A			

PACKAGING SPECIFICATIONS

Number of modules per pallet	36
Number of pallets per 40' container	26
Packaging box dimensions (L/W/H)	1740 mm / 1110 mm / 1245 mm
Box weight	927 kg

BACK VIEW (units: mm)









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

- Due to continuous innovation, research and product improvement, the specifications in this product information sheet are subject to change without prior notice. The specifications of the specification of the specificatio tions may deviate slightly and are not guaranteed.
- The data does not refer to a single module and only serves as a comparison to different

Proudly manufactured in China.

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