



panda n-type TOPCon Bifacial Module

425-445 W

MAXIMUM MODULE EFFICIENCY

22.8%

POSITIVE POWER TOLERANCE

0 TO +5 W



IDEAL FOR:



Residential Projects

Commercial & Industrial Projects

POWER YOUR LIFE

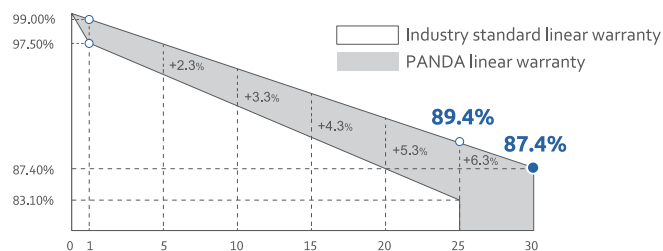
Outstanding Bifaciality | Strong Lightweight Construction | Built for the Australian Environment

QUALIFICATIONS & CERTIFICATES

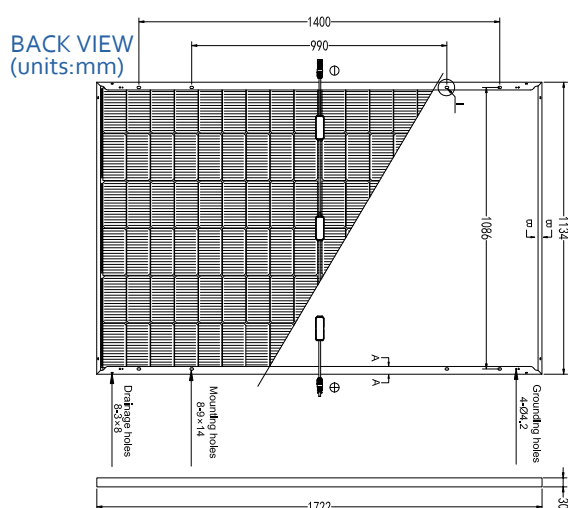
IEC 61215, IEC 61730, CE
ISO 9001: Quality management systems
ISO 14001: Environmental management systems
IEC 62941: Quality system for PV module manufacturing
ISO 45001: Occupational health and safety management systems
SA8000 Standard (Social Accountability International)



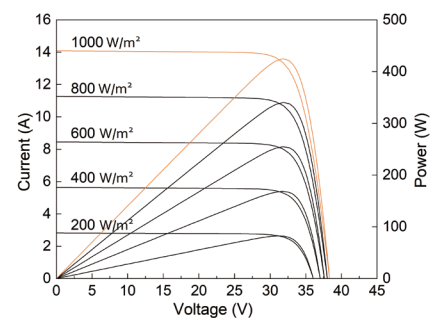
Munich RE



0.40% annual power degradation



I-V / P-V CURVES



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

DIMENSIONS 1722 mm / 1134 mm / 30 mm **WEIGHT** 20.6 kg
FIRE RESISTANCE RATING Class C (Class A (Spread of flame test) + Class C (Burning brand test))

Electrical Parameters

	YL425CF54 e/2		YL430CF54 e/2		YL435CF54 e/2		YL440CF54 e/2		YL445CF54 e/2	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power output-Pmax (W)	425	323	430	327	435	331	440	335	445	338
Power output tolerances-ΔPmax (W)	0 / + 5		0 / + 5		0 / + 5		0 / + 5		0 / + 5	
Module efficiency-ηm (%)	21.8		22.0		22.3		22.5		22.8	
Voltage at Pmax - Vmpp (V)	31.70	30.24	31.89	30.24	32.08	30.60	32.27	30.78	32.46	30.97
Current at Pmax-Impp (A)	13.41	10.69	13.49	10.76	13.56	10.81	13.64	10.87	13.71	10.93
Open-circuit voltage-Voc (V)	38.32	36.39	38.51	36.57	38.69	36.74	38.87	36.91	39.05	37.08
Short-circuit current-Isc (A)	14.09	15.61	14.15	15.68	14.22	15.76	14.29	15.83	14.36	15.91

*STC: 1000 W·m⁻² irradiance, 25°C cell temperature, AM 1.5.

*NOCT: open-circuit module operation temperature at 800 W·m⁻² irradiance, 20°C ambient temperature, 1 m·s⁻¹ wind speed.

Bifacial Electrical Parameters at Standard Test Conditions (BNPI*)

Power output-Pmax (W)	471	477	482	488	493
Voltage at Pmax - Vmpp (V)	31.70	31.89	32.08	32.27	32.46
Current at Pmax-Impp (A)	14.86	14.95	15.02	15.11	15.19
Open-circuit voltage-Voc (V)	38.32	38.51	38.69	38.87	39.05
Short-circuit current-Isc (A)	15.61	15.68	15.76	15.83	15.91

*1000W·m⁻² on the front side and 135W·m⁻² on the back side, 25°C cell temperature, AM 1.5. Bifaciality coefficient is 80% ± 5%.

φPmax = 80%, φIsc = 80% and φVoc = 99% with tolerance ±5% for reference. Measurement tolerance: Pmax ±3%, Voc ±3% and Isc ±3%.

Bifacial Output-Rearside Power Gain

5%	Maximum Power (Pmax)	442	447	452	458	463
	Module Efficiency STC (%)	22.6%	22.9%	23.2%	23.4%	23.7%
15%	Maximum Power (Pmax)	476	482	487	493	498
	Module Efficiency STC (%)	24.4%	24.7%	24.9%	25.2%	25.5%
25%	Maximum Power (Pmax)	510	516	522	528	534
	Module Efficiency STC (%)	26.1%	26.4%	26.7%	27.0%	27.3%

Thermal Characteristics

Nominal operating cell temperature-NOCT(°C)	42±2
Temperature coefficient of Pmax-γ(°C)	-0.29
Temperature coefficient of Voc-β(°C)	-0.24
Temperature coefficient of Isc-α(°C)	0.042

Operating Conditions

Max. system voltage	1500 Vdc
Max. series fuse rating*	30 A
Operating temperature range	-40°C ~ 70°C
Max. static load, front (e.g., snow)	1600 Pa
Max. static load, back (e.g., wind)	1600 Pa
Max. hailstone impact (diameter / velocity)	25 mm / 23 m·s ⁻¹

*Do not connect fuse in combiner box with two or more strings in parallel connection.

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	778 kg

Construction Materials

Cell (material / quantity)	n-type monocrystalline silicon / 6 x 18
Glass (thickness)	1.6 mm / 1.6 mm
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 mm ²

- Proudly manufactured in China.
- 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 as a comparison to different module types.

Visit Our Website



Note: images are a guide only. Check with the manufacturer before purchasing.

australia@yingli.com.au 1300 309 489