



panda n-type TOPCon Bifacial Module

500-545 W

MAXIMUM MODULE EFFICIENCY

22.9%

POSITIVE POWER TOLERANCE

0 TO +5 W



IDEAL FOR:



Residential Projects

Commercial & Industrial Projects

POWER YOUR LIFE

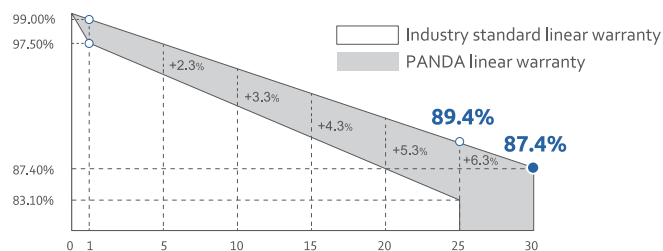
Outstanding Bifaciality | Strong Lightweight Construction | Built for the Australian Environment

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)

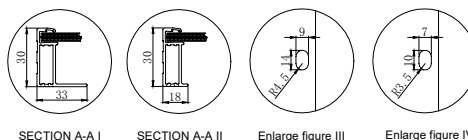
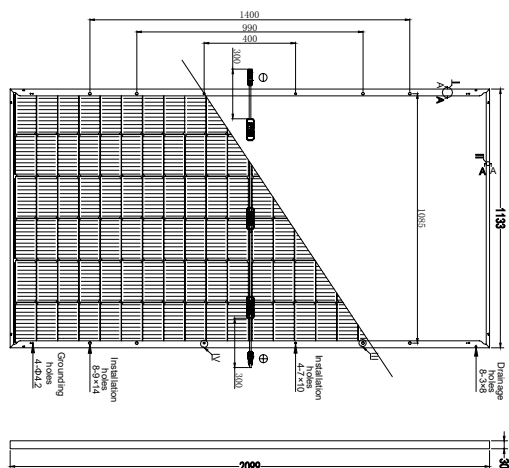


Munich RE



0.40% annual power degradation

BACK VIEW (units: mm)



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

DIMENSIONS 2099 mm / 1133 mm / 30 mm **WEIGHT** 30.0 kg
FIRE RESISTANCE RATING Class A

Electrical Parameters

	YL500CF66 e/2		YL510CF66 e/2		YL520CF66 e/2		YL540CF66 e/2		YL545CF66 e/2	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power output-Pmax (W)	500	379.80	510	387.40	520	394.87	540	411.00	545	415.00
Power output tolerances-ΔPmax (W)	0 / + 5		0 / + 5		0 / + 5		0 / + 5		0 / + 5	
Module efficiency-ηm (%)	21.10		21.52		21.94		22.70		22.90	
Voltage at Pmax - Vmpp (V)	38.13	36.31	38.54	36.70	38.96	37.10	39.71	37.88	39.91	38.07
Current at Pmax-Imp (A)	13.12	10.46	13.24	10.56	13.35	10.64	13.60	10.84	13.66	10.89
Open-circuit voltage-Voc (V)	45.83	43.44	46.14	43.74	46.40	43.98	47.06	44.69	47.22	44.84
Short-circuit current-Isc (A)	13.84	11.16	14.08	11.35	14.25	11.49	14.53	11.71	14.60	11.76

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

*NOCT: open-circuit module operation temperature at $800 \text{ W}\cdot\text{m}^{-2}$ irradiance, 20°C ambient temperature, $1 \text{ m}\cdot\text{s}^{-1}$ wind speed.

Bifacial Electrical Parameters at Standard Test Conditions (BNPI*)

Power output-Pmax (W)	554.29	565.38	576.29	598	604
Voltage at Pmax - Vmpp (V)	38.13	38.54	38.96	39.71	39.91
Current at Pmax-Impp (A)	14.54	14.67	14.79	15.07	15.14
Open-circuit voltage-Voc (V)	45.83	46.14	46.40	47.06	47.22
Short-circuit current-Isc (A)	15.33	15.60	15.79	16.10	16.18

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

$\phi P_{max} = 80\%$, $\phi I_{sc} = 80\%$ and $\phi V_{oc} = 99\%$ with tolerance $\pm 5\%$ for reference. Measurement tolerance: $P_{max} \pm 3\%$, $V_{oc} \pm 3\%$ and $I_{sc} \pm 3\%$.

Bifacial Output-Rearside Power Gain

5%	Maximum Power (Pmax)	520	530	541	562	567
	Module Efficiency STC (%)	21.9%	22.3%	22.8%	23.7%	23.9%
15%	Maximum Power (Pmax)	560	571	582	605	610
	Module Efficiency STC (%)	23.6%	24.1%	24.5%	25.5%	25.7%
25%	Maximum Power (Pmax)	600	612	624	648	654
	Module Efficiency STC (%)	25.3%	25.8%	26.3%	27.3%	27.5%

Thermal Characteristics

Nominal operating cell temperature-NOCT(°C)	42±2
Temperature coefficient of P _{max} -γ(% / °C)	-0.29
Temperature coefficient of V _{oc} -β(% / °C)	-0.24
Temperature coefficient of I _{sc} -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	22
Packaging box dimensions (L / W / H)	2115 mm / 1110 mm / 1245 mm
Box weight	1228 kg

Construction Materials

Cell (material / quantity)	n-type monocrystalline silicon / 6 x 22
Glass (thickness)	2.0 mm / 2.0 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)	±300 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.

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

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