



panda n-type TOPCon Bifacial Module

580-600 W

MAXIMUM MODULE EFFICIENCY

23.2%

POSITIVE POWER TOLERANCE

0 TO +5 W



IDEAL FOR:



Commercial & Industrial Projects

MAXIMISE YOUR ROOF AND GROUND SPACE

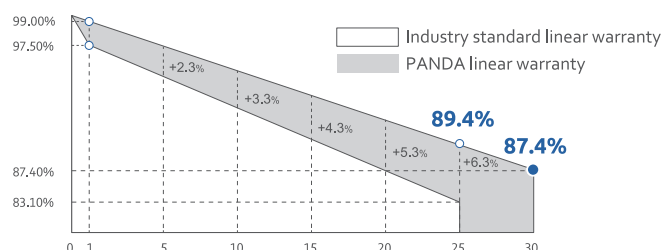
Outstanding Bifaciality | High Efficiency | Wide Applications

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)

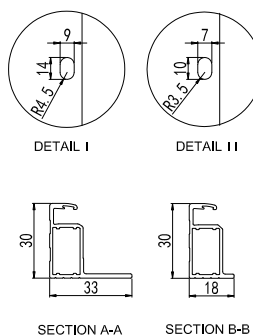
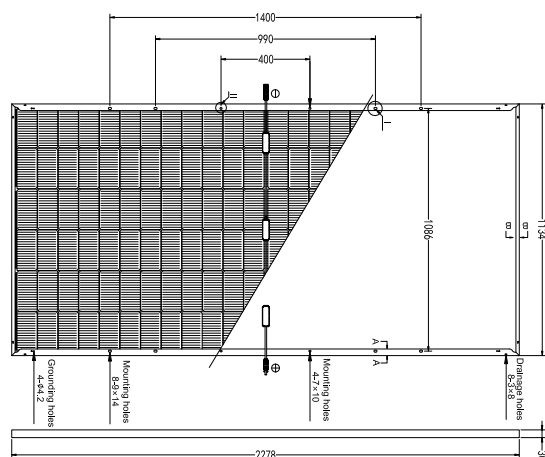


Munich RE

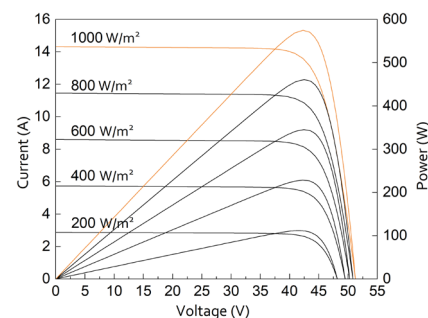


0.40% annual power degradation

BACK VIEW (units: mm)



I-V / P-V CURVES



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

DIMENSIONS 2278 mm / 1134 mm / 30 mm **WEIGHT** 32.0 kg
FIRE RESISTANCE RATING Class A

Electrical Parameters

	YL580CF72 e/2		YL585CF72 e/2		YL590CF72 e/2		YL595CF72 e/2		YL600CF72 e/2	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power output-Pmax (W)	580	441	585	445	590	449	595	453	600	457
Power output tolerances-ΔPmax (W)	0 / + 5		0 / + 5		0 / + 5		0 / + 5		0 / + 5	
Module efficiency-ηm (%)	22.5		22.6		22.8		23.0		23.2	
Voltage at Pmax - Vmpp (V)	42.65	40.69	42.83	40.86	43.01	41.03	43.19	41.20	43.37	41.37
Current at Pmax-Impp (A)	13.60	10.84	13.66	10.89	13.72	10.94	13.78	10.99	13.84	11.03
Open-circuit voltage-Voc (V)	51.46	48.87	51.66	49.06	51.86	49.25	52.06	49.44	52.26	49.63
Short-circuit current-Isc (A)	14.38	11.59	14.44	11.63	14.50	11.68	14.56	11.73	14.62	11.78

*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*)

	643	648	654	659	665
Power output-Pmax (W)	643	648	654	659	665
Voltage at Pmax - Vmpp (V)	42.65	42.83	43.01	43.19	43.37
Current at Pmax-Impp (A)	15.07	15.14	15.20	15.27	15.33
Open-circuit voltage-Voc (V)	51.46	51.66	51.86	52.06	52.26
Short-circuit current-Isc (A)	15.93	16.00	16.07	16.13	16.20

*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%.

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

	603	608	614	619	624
5% Maximum Power (Pmax)	603	608	614	619	624
Module Efficiency STC (%)	23.4%	23.6%	23.8%	24.0%	24.2%
15% Maximum Power (Pmax)	650	655	661	666	672
Module Efficiency STC (%)	25.2%	25.4%	25.6%	25.8%	26.1%
25% Maximum Power (Pmax)	696	702	708	714	720
Module Efficiency STC (%)	27.0%	27.2%	27.5%	27.7%	27.9%

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	20
Packaging box dimensions (L / W / H)	2300 mm / 1110 mm / 1245 mm
Box weight	1207 kg

Construction Materials

Cell (material / quantity)	n-type monocrystalline silicon / 6 x 24
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)	±1400 mm or customised length / 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 do not refer to a single module and they are not part of the offer, they only serve for comparison to different module types.

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