



panda 3.0 Pro 2

630W

MAXIMUM MODULE EFFICIENCY

23.3%

POSITIVE POWER TOLERANCE

0~+5_w



N-type TOPCon Bifacial Module

**IMPROVED POWER
NEVER SETTLE FOR LESS**



Backside Yield



Wide Applications



Superior Yield



Outstanding Bifaciality



Excellent Durability



Yingli Solar Website



QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, CE

ISO 9001: Quality management systems

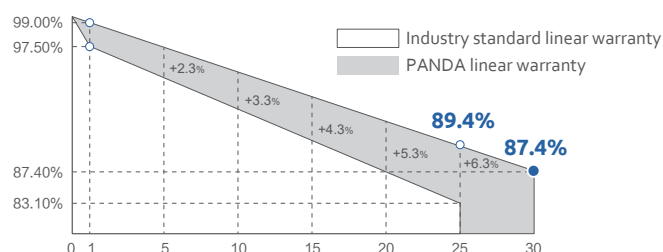
ISO 14001: Environmental management systems

IEC 62941: Quality system for PV module manufacturing

ISO 45001: Occupational health and safety management systems

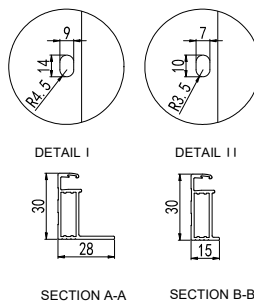
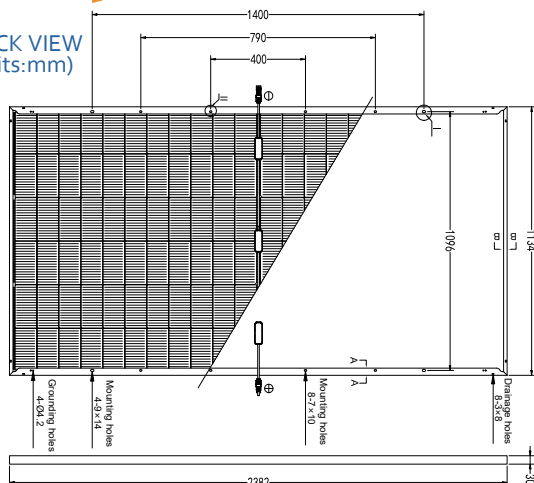


Warranty partner

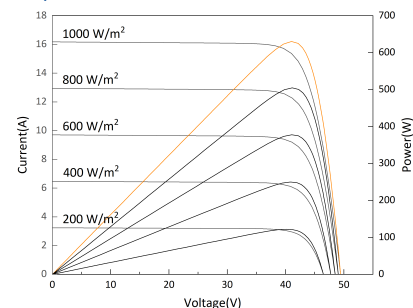


1.00% the 1st year power degradation
0.40% annual power degradation

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.

Electrical Parameters at Standard Test Conditions (STC)

Module type	YLxxxCF66 i/2 (xxx=Pmax)					
Power output*-Pmax (W)	605	610	615	620	625	630
Power output tolerances-ΔPmax (W)	0 / + 5					
Module efficiency-η _m (%)	22.4	22.6	22.8	23.0	23.1	23.3
Voltage at Pmax - V _{mpp} (V)	40.63	40.80	40.97	41.14	41.31	41.47
Current at Pmax-I _{mpp} (A)	14.89	14.95	15.01	15.07	15.13	15.19
Open-circuit voltage*-V _{oc} (V)	48.54	48.72	48.90	49.08	49.26	49.44
Short-circuit current*-I _{sc} (A)	15.83	15.90	15.97	16.04	16.11	16.18

STC: 1000 W·m⁻² irradiance, 25°C cell temperature, AM 1.5. *Measuring tolerance: ±3%.

Electrical Parameters at Nominal Operating Cell Temperature (NOCT)

Power output-Pmax (W)	460	464	468	472	475	479
Voltage at Pmax - V _{mpp} (V)	38.76	38.92	39.09	39.25	39.41	39.56
Current at Pmax-I _{mpp} (A)	11.87	11.92	11.97	12.02	12.06	12.11
Open-circuit voltage-V _{oc} (V)	46.09	46.26	46.44	46.61	46.78	46.95
Short-circuit current-I _{sc} (A)	12.75	12.81	12.87	12.92	12.98	13.04

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)	670	676	681	687	693	698
Voltage at Pmax - V _{mpp} (V)	40.63	40.80	40.97	41.14	41.31	41.47
Current at Pmax-I _{mpp} (A)	16.50	16.56	16.63	16.70	16.76	16.83
Open-circuit voltage-V _{oc} (V)	48.54	48.72	48.90	49.08	49.26	49.44
Short-circuit current-I _{sc} (A)	17.54	17.62	17.69	17.77	17.85	17.93

BNPI: 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%.

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

Packaging Specifications

Number of modules per pallet	36
Number of pallets per 40' container	20
Packaging box dimensions (L / W / H)	2400 mm / 1110 mm / 1245 mm
Box weight	1240 kg

Operating Conditions

Max. system voltage	1500 V _{DC}
Max. series fuse rating*	30 A
Operating temperature range	- 40°C~ 85°C
Max. static load, front (e.g., snow)	5400 Pa
Max. static load, back (e.g., wind)	2400 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.

General Characteristics

Dimensions (L / W / H)	2382 mm / 1134 mm / 30 mm
Weight	32.5 kg

Construction Materials

Cell (material / quantity)	n-type monocrystalline silicon / 6 x 22
Glass (thickness)	2.0 mm / 2.0 mm
Frame (material)	anodized aluminum alloy
Junction box (type / protection degree)	3 bypass diodes / ≥ IP68
Cable (length / cross-sectional area)	± 300 mm or customized length / 4 mm ²

• 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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