



YLM 3.0 Pro 1

555W

MAXIMUM MODULE EFFICIENCY

21.5%

POSITIVE POWER TOLERANCE

0~+5_w



P-type monofacial PV module

**IMPROVED POWER
NEVER SETTLE FOR LESS**



Classic Structure



Wide Applications



Superior Yield



Lower Losses



Excellent Durability



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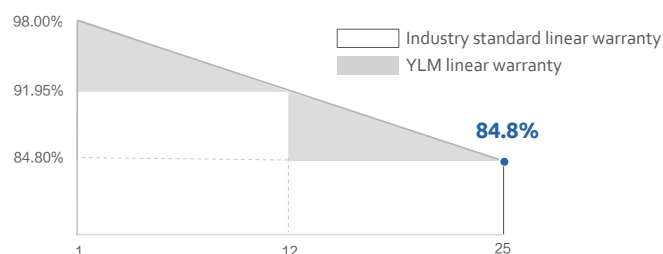
QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, UL 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



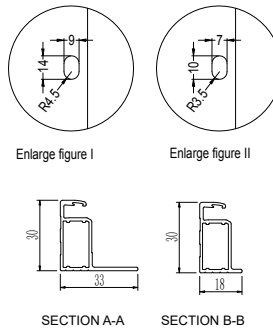
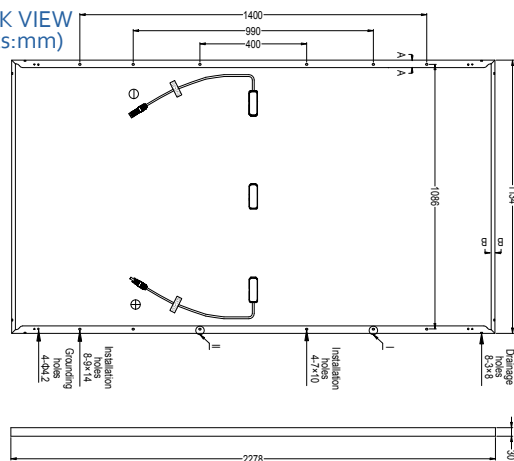
Warranty partner

Munich RE

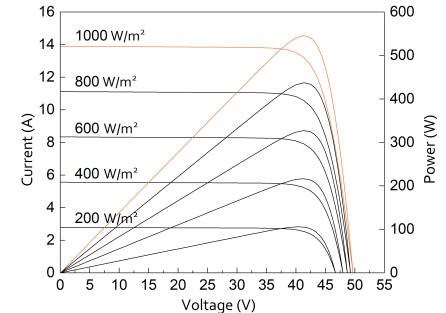


2.00% the 1st year power degradation
0.55% annual power degradation

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	YLxxxD-49e 1/2 (xxx=Pmax)	YLxxxD-49e 1500V 1/2 (xxx=Pmax)
Power output*-Pmax (W)	530	535
Power output tolerances- ΔPmax (W)	0 / + 5	
Module efficiency-η _m (%)	20.5	20.7
Voltage at Pmax - V _{mpp} (V)	41.40	41.55
Current at Pmax-I _{mp} (A)	12.81	12.88
Open-circuit voltage*-V _{oc} (V)	49.22	49.37
Short-circuit current*-I _{sc} (A)	13.69	13.76

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)	394	398	402	405	409	413
Voltage at Pmax - V _{mpp} (V)	38.48	38.63	38.78	38.90	39.05	39.19
Current at Pmax-I _{mp} (A)	10.25	10.30	10.36	10.42	10.48	10.54
Open-circuit voltage-V _{oc} (V)	46.10	46.24	46.38	46.52	46.66	46.80
Short-circuit current-I _{sc} (A)	11.06	11.12	11.17	11.23	11.29	11.34

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

Thermal Characteristics

Nominal operating cell temperature-NOCT(°C)	45 ± 2
Temperature coefficient of Pmax-γ (% / °C)	- 0.35
Temperature coefficient of Voc-β (% / °C)	- 0.27
Temperature coefficient of Isc-α (% / °C)	0.05

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	1063 kg

Operating Conditions

Max. system voltage	1000 V _{DC} / 1500 V _{DC}
Max. series fuse rating*	25 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)	2278 mm / 1134 mm / 30 mm
Weight	28.0 kg

Construction Materials

Cell (material / quantity)	p-type monocrystalline silicon / 6 x 24
Glass (material / thickness)	low-iron tempered glass / 3.2 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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