



YLM 3.0 Plus 1

605W

MAXIMUM MODULE EFFICIENCY

21.4%

POSITIVE POWER TOLERANCE

0~+5_w



P-type monofacial PV module

IMPROVED POWER NEVER SETTLE FOR LESS

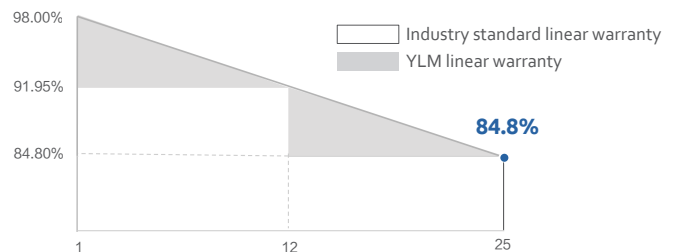
- Classic Structure Wide Applications
- Superior Yield Lower Losses
- Excellent Durability



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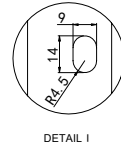
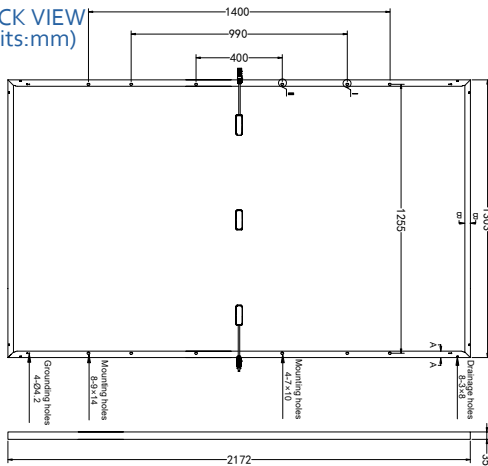
QUALIFICATIONS & CERTIFICATES

- IEC 61215, IEC 61730, 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

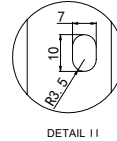


2.00% the 1st year power degradation
0.55% annual power degradation

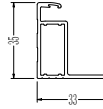
BACK VIEW
(units:mm)



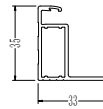
DETAIL I



DETAIL II

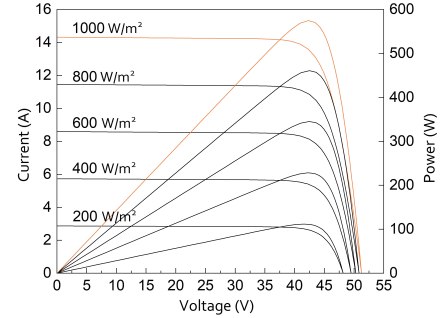


SECTION A-A



SECTION B-B

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-41f 1/2 (xxx=Pmax) | YLxxxD-41f 1500V 1/2 (xxx=Pmax) | YLxxxD-41f 1500V 1/2 (xxx=Pmax) | YLxxxD-41f 1500V 1/2 (xxx=Pmax) | YLxxxD-41f 1500V 1/2 (xxx=Pmax) | YLxxxD-41f 1500V 1/2 (xxx=Pmax) |
|---|---------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Power output-Pmax (W) | 580 | 585 | 590 | 595 | 600 | 605 |
| Power output tolerances- ΔPmax (W) | 0 / + 5 | | | | | |
| Module efficiency-η _m (%) | 20.5 | 20.7 | 20.8 | 21.0 | 21.2 | 21.4 |
| Voltage at Pmax - V _{mpp} (V) | 33.80 | 34.00 | 34.20 | 34.40 | 34.60 | 34.80 |
| Current at Pmax-I _{mpp} (A) | 17.16 | 17.21 | 17.25 | 17.30 | 17.34 | 17.39 |
| Open-circuit voltage-V _{oc} (V) | 40.80 | 41.00 | 41.20 | 41.40 | 41.60 | 41.80 |
| Short-circuit current-I _{sc} (A) | 18.21 | 18.26 | 18.31 | 18.36 | 18.42 | 18.48 |

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

Electrical Parameters at Nominal Operating Cell Temperature (NOCT*)

| | | | | | | |
|---|-------|-------|-------|-------|-------|-------|
| Power output-Pmax (W) | 436 | 439 | 443 | 447 | 451 | 454 |
| Voltage at Pmax - V _{mpp} (V) | 31.73 | 31.91 | 32.11 | 32.29 | 32.48 | 32.66 |
| Current at Pmax-I _{mpp} (A) | 13.73 | 13.77 | 13.80 | 13.84 | 13.87 | 13.91 |
| Open-circuit voltage-V _{oc} (V) | 37.92 | 38.11 | 38.29 | 38.48 | 38.66 | 38.85 |
| Short-circuit current-I _{sc} (A) | 14.67 | 14.71 | 14.75 | 14.79 | 14.84 | 14.89 |

*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) | 43 ± 2 |
| Temperature coefficient of Pmax- γ (% / °C) | - 0.34 |
| Temperature coefficient of Voc- β (% / °C) | - 0.25 |
| Temperature coefficient of I _{sc} - α (% / °C) | 0.04 |

Packaging Specifications

| | |
|--------------------------------------|-----------------------------|
| Number of modules per pallet | 31 |
| Number of pallets per 40' container | 17 |
| Packaging box dimensions (L / W / H) | 1340 mm / 1140 mm / 2290 mm |
| Box weight | 1013 kg |

Construction Materials

| | |
|---|---|
| Cell (material / quantity) | p-type monocrystalline silicon / 6 x 20 |
| 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 |

Operating Conditions

| | |
|---|---|
| Max. system voltage | 1000 V _{DC} / 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) | 2172 mm / 1303 mm / 35 mm |
| Weight | 31.0 kg |

• 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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