



**YLM 3.0 Plus 1**

**605W**

MAXIMUM MODULE EFFICIENCY

**21.4%**

POSITIVE POWER TOLERANCE

**0~+5<sub>w</sub>**



P-type monofacial PV module

**IMPROVED POWER  
NEVER SETTLE FOR LESS**



Classic Structure



Wide Applications



Superior Yield



Lower Losses



Excellent Durability



Yingli Solar Website



#### QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, CE

ISO 9001: Quality management systems

ISO 14001: Environmental management systems

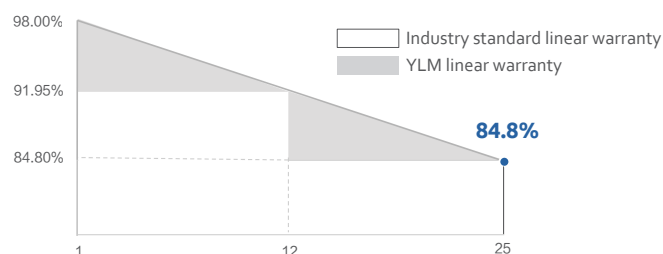
IEC 62941: Quality system for PV module manufacturing

ISO 45001: Occupational health and safety management systems



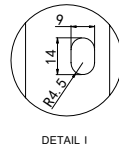
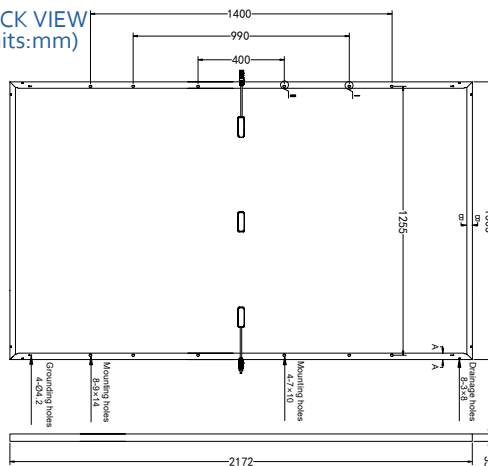
Warranty partner

Munich RE

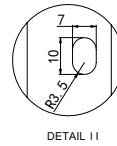


**2.00%** the 1st year power degradation  
**0.55%** annual power degradation

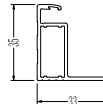
BACK VIEW  
(units:mm)



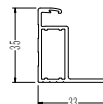
DETAIL I



DETAIL II

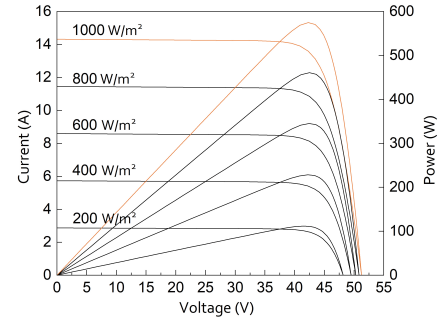


SECTION A-A



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) |
|--------------------------------------------|---------------------------|---------------------------------|
| Power output*-Pmax (W)                     | 580                       | 585                             |
| Power output tolerances- ΔPmax (W)         | 0 / + 5                   |                                 |
| Module efficiency-η <sub>m</sub> (%)       | 20.5                      | 20.7                            |
| Voltage at Pmax - V <sub>mpp</sub> (V)     | 33.80                     | 34.00                           |
| Current at Pmax-I <sub>mpp</sub> (A)       | 17.16                     | 17.21                           |
| Open-circuit voltage*-V <sub>oc</sub> (V)  | 40.80                     | 41.00                           |
| Short-circuit current*-I <sub>sc</sub> (A) | 18.21                     | 18.26                           |

STC: 1000 W·m<sup>-2</sup> irradiance, 25°C cell temperature, AM 1.5. \*Measuring tolerance: ±3%.

## Electrical Parameters at Nominal Operating Cell Temperature (NOCT)

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

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

## Thermal Characteristics

|                                                        |        |
|--------------------------------------------------------|--------|
| Nominal operating cell temperature-NOCT(°C)            | 43 ± 2 |
| Temperature coefficient of Pmax-γ (% / °C)             | - 0.34 |
| Temperature coefficient of V <sub>oc</sub> -β (% / °C) | - 0.25 |
| Temperature coefficient of I <sub>sc</sub> -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                     |

## Operating Conditions

|                                             |                                             |
|---------------------------------------------|---------------------------------------------|
| Max. system voltage                         | 1000 V <sub>DC</sub> / 1500 V <sub>DC</sub> |
| 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 <sup>-1</sup>                |

\*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                   |

## 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 <sup>2</sup> |

• 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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