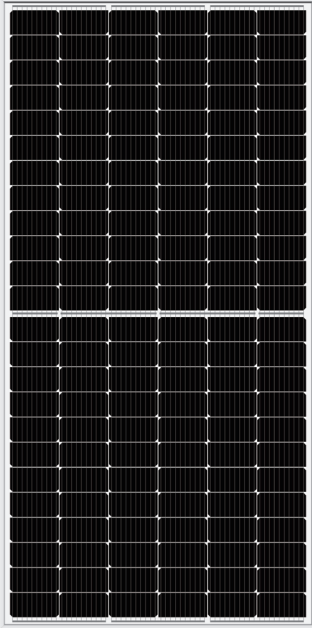


YLM-J 3.0 PRO

550-555 W

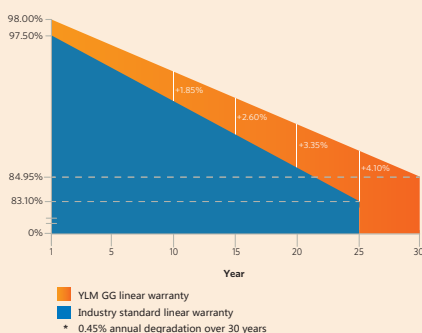


144 CELLS

0-5 W
POWER TOLERANCE

12-YEAR
PRODUCT WARRANTY

30-YEAR
POWER WARRANTY



IMPROVED POWER

NEVER SETTLE FOR LESS

YLM 3.0 modules use high efficiency p-type monocrystalline PERC cell technology. With high-quality encapsulation materials and excellent glass-glass structure, YLM 3.0 modules are perfectly suited to the harsh environment and provide you with high reliability and quality assurance.



Backside Yield

The backside of the module effectively uses reflected and scattered light from the environment to generate electricity. Superior backside power generation reduces LCOE.



Superior Yield

The large cell size enhances the module's power output, while the excellent temperature coefficient and comprehensive suppression technology allows the module to generate more energy yield once in use.



Excellent Durability

The modules meet IEC standard testing requirements and are built to withstand the harsh Australian environment.



Wide Applications

The glass-glass structure, special material selection and extra-strong frames effectively enhance the mechanical performance of the modules, their compatibility with mainstream trackers and inverters, and their adaptability to harsh environments.



Lower Losses

The multi-busbar design effectively reduces the impact of micro-cracks and broken busbars, and the half-cell structure effectively reduces the impact of shadow shading.

QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, CE, UL 61730, IEC 62941:2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing, ISO 9001:2015 Quality management systems, ISO 14001:2015 Environmental management systems, ISO 45001:2018 Occupational health and safety management systems



Yingli Solar

Headquartered in Baoding, China, Yingli Energy Development Company Limited, known as Yingli Solar, is a leading solar solution provider. Yingli Solar is committed to providing clean, renewable energy through PV power generation technology for homes, factories and utilities around the world. Yingli Solar provides reliable products and services through continuous technological advancement and management innovation.

Electrical parameters at Standard Test Conditions (STC*)

| Module type | | | YLxxxDF72 e/2 (xxx=Pmax) | | | | | |
|-------------------------|------------------|---|--------------------------|-------|-------|-------|-------|-------|
| Power output | P_{max} | W | 530 | 535 | 540 | 545 | 550 | 555 |
| Power output tolerances | ΔP_{max} | W | 0 / + 5 | | | | | |
| Module efficiency | η_m | % | 20.52 | 20.71 | 20.90 | 21.10 | 21.29 | 21.48 |
| Voltage at P_{max} | V_{mpp} | V | 41.30 | 41.45 | 41.60 | 41.75 | 41.90 | 42.05 |
| Current at P_{max} | I_{mpp} | A | 12.84 | 12.91 | 12.99 | 13.06 | 13.13 | 13.20 |
| Open-circuit voltage | V_{oc} | V | 49.15 | 49.30 | 49.45 | 49.60 | 49.75 | 49.90 |
| Short-circuit current | I_{sc} | A | 13.76 | 13.83 | 13.90 | 13.97 | 14.04 | 14.11 |

*STC: 1000 W·m⁻² irradiance, 25°C Cell temperature, AM 1.5 spectrum according to EN 60904-3. Measurement tolerance of P_{max} , V_{oc} and I_{sc} is ±3%.

Electrical parameters at Nominal Operating Cell Temperature (NOCT*)

| | | | | | | | | |
|-----------------------|-----------|---|--------|--------|--------|--------|--------|--------|
| Power output | P_{max} | W | 403.45 | 407.12 | 411.12 | 414.83 | 418.55 | 422.29 |
| Voltage at P_{max} | V_{mpp} | V | 39.39 | 39.53 | 39.67 | 39.82 | 39.96 | 40.10 |
| Current at P_{max} | I_{mpp} | A | 10.24 | 10.30 | 10.36 | 10.42 | 10.47 | 10.53 |
| Open-circuit voltage | V_{oc} | V | 46.72 | 46.87 | 47.01 | 47.15 | 47.29 | 47.44 |
| Short-circuit current | I_{sc} | A | 11.09 | 11.14 | 11.20 | 11.25 | 11.31 | 11.37 |

*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 (STC*)

| | | | | | | | | |
|-----------------------|-----------|---|--------|--------|--------|--------|--------|--------|
| Power output | P_{max} | W | 580.09 | 585.56 | 591.03 | 596.50 | 601.98 | 607.45 |
| Voltage at P_{max} | V_{mpp} | V | 41.30 | 41.45 | 41.60 | 41.75 | 41.90 | 42.05 |
| Current at P_{max} | I_{mpp} | A | 14.05 | 14.13 | 14.21 | 14.29 | 14.37 | 14.45 |
| Open-circuit voltage | V_{oc} | V | 49.15 | 49.30 | 49.45 | 49.60 | 49.75 | 49.90 |
| Short-circuit current | I_{sc} | A | 15.06 | 15.14 | 15.21 | 15.29 | 15.37 | 15.44 |

*Bifaciality coefficient is 80% ± 5%, rear irradiance is 135 W·m⁻².

THERMAL CHARACTERISTICS

| | | | |
|--------------------------------------|----------|------|--------|
| Nominal operating cell temperature | NOCT | °C | 39 ± 2 |
| Temperature coefficient of P_{max} | γ | %/°C | - 0.35 |
| Temperature coefficient of V_{oc} | β | %/°C | - 0.28 |
| Temperature coefficient of I_{sc} | α | %/°C | 0.05 |

OPERATING CONDITIONS

| | |
|---|------------------------------|
| Max. system voltage | 1500 V _{DC} |
| Max. series fuse rating* | 30 A |
| Operating temperature range | - 40°C to 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.

CONSTRUCTION MATERIALS

| | |
|---|--|
| Cell (material / quantity) | p-type monocrystalline silicon / 6 x 24 |
| Glass (material / thickness) | low-iron semi-tempered glass / 2.0 mm (front), 2.0 mm (back) |
| 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) | ± 300 mm or customised length / 4 mm ² |

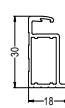
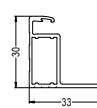
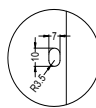
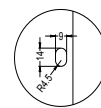
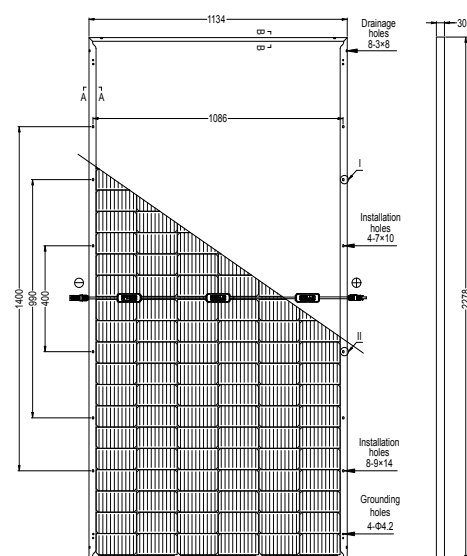
GENERAL CHARACTERISTICS

| | |
|------------------------|--------------------------|
| Dimensions (L / W / H) | 2278mm / 1134 mm / 30 mm |
| Weight | 32.0 kg |

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 |

BACK VIEW (units: mm)



Enlarge figure I

Enlarge figure II

SECTION A-A

SECTION B-B



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

- 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 does not refer to a single module and only serves as a comparison to different module types.

Proudly manufactured in China.

Yingli Green Energy Australia Pty Ltd

australia@yingli.com

Tel: +61 2 8017 8700