YLM 144 CELL (M10)



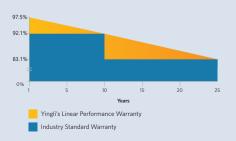
With over two millions of PV that our produproven in the

Up to 21.1% MODULE EFFICIENCY

12 YEAR
PRODUCT WARRANTY

O to +5W
POWER TOLERANCE

25 Years Linear Warranty



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IMPROVED POWER NEVER SETTLE FOR LESS

With over two decades of manufacturing experience and millions of PV systems installed worldwide you can trust that our product quality and long term reliability have been proven in the field.



Higher Durability

The multi-busbar design can decrease the risk of cell micro- cracks by improving long-term mechanical performance



144 Cell Design

With double the standard amount of cells, we have increased the performance of the module. Each cell operates cooler as they now carry just half the amount of current in the same conditions. This design effectively deals with shadow and improves performance by reducing degradation.



Better Heat Dissipation

When part of the module is shaded, the bypass diodes are activated so the modules can continue to produce power. This module uses three junction boxes instead of one which improves the heat dissipation.



Bigger Cells with better performance

Using the next generation size of cells has boosted the power of the modules meaning more watts per installed panel and more time saved during installation.

Yingli Green Energy

Founded in 1987, Yingli Green Energy Holding Company Limited, known as "Yingli Solar", is one of the world's oldest leading solar panel manufacturers with the mission to provide affordable green energy for all. Yingli Solar makes solar power possible for communities everywhere by using our global manufacturing and logistics expertise to address unique local challenges.

YLM 144 CELL (M10)

ELECTRICAL PERFORMANCE

| Electrical parameters at Standard Test Conditions (STC) | | | | | | | |
|---------------------------------------------------------|-------------------|---|---------------------------------|-------|-------|-------|-------|
| Module type | | | YLxxxD-49e 1500V 1/2 (xxx=Pmax) | | | | |
| Power output | P _{max} | W | 525 | 530 | 535 | 540 | 545 |
| Power output tolerances | ΔP _{max} | W | 0/+5 | | | | |
| Module efficiency | η | % | 20.5 | 20.7 | 20.9 | 21.1 | 21.3 |
| Voltage at P _{max} | V _{mpp} | V | 41.25 | 41.40 | 41.55 | 41.70 | 41.85 |
| Current at P _{max} | I | Α | 12.73 | 12.81 | 12.88 | 12.95 | 13.03 |
| Open-circuit voltage | V _{oc} | V | 49.07 | 49.22 | 49.37 | 49.52 | 49.67 |
| Short-circuit current | l _{sc} | Α | 13.62 | 13.69 | 13.76 | 13.83 | 13.90 |

STC: $1000W/m^2$ irradiance, 25° C module temperature, AM1.5g spectrum according to EN 60904-3. Average relative efficiency reduction of 3.3% at $200W/m^2$ according to EN 60904-1. Measurement tolerance of P_{max} , V_{oc} and I_{oc} is $\pm 3\%$.

| Electrical parameters at Nominal Operating Cell Temperature (NOCT) | | | | | | | |
|--------------------------------------------------------------------|------------------|---|-------|-------|-------|-------|-------|
| Power output | P _{max} | W | 390.6 | 394.3 | 398.0 | 401.8 | 405.5 |
| Voltage at P _{max} | V _{mpp} | ٧ | 38.4 | 38.5 | 38.6 | 38.8 | 38.9 |
| Current at P _{max} | Impp | Α | 10.18 | 10.25 | 10.30 | 10.36 | 10.42 |
| Open-circuit voltage | V _{oc} | V | 46.0 | 46.1 | 46.2 | 46.4 | 46.5 |
| Short-circuit current | l _{sc} | Α | 11.00 | 11.06 | 11.12 | 11.17 | 11.23 |

NOCT: open-circuit module operation temperature at 800W/m² irradiance, 20°C ambient temperature, 1m/s wind speed.

THERMAL CHARACTERISTICS

| Nominal operating cell temperature | NOCT | °C | 45±2 |
|---------------------------------------------|------------------|------|-------|
| Temperature coefficient of P _{max} | Υ | %/°C | -0.35 |
| Temperature coefficient of V _{oc} | β _{Voc} | %/°C | -0.27 |
| Temperature coefficient of I _{sc} | α_{lsc} | %/°C | 0.05 |

OPERATING CONDITIONS

| 25A |
|---------------|
| -40°C to 85°C |
| 5400Pa |
| 2400Pa |
| 25mm / 23m/s |
| |

CONSTRUCTION MATERIALS

| Front cover (material / thickness) | anti-reflection coated, high transmission tempered glass / 3.2mm |
|---------------------------------------|------------------------------------------------------------------|
| Cell (quantity / material) | 144 / monocrystalline silicon multi busbar |
| Frame (material) | anodized aluminum alloy |
| Junction box (protection degree) | ≥ IP67 |
| Cable (length / cross-sectional area) | 300 mm / 4mm² |
| Plug Connector (type) | Renhe RH05-8 or Yitong YT18-01 or Staubli MC4-Evo2 |

- 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 it is not part of the offer, it only serves to enable comparisons between different module types.

QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, CE, CQC, ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007

Energy (China) Co., Ltd., a wholly owned subsidiary of Yingli Green Energy Holding Co., Ltd.







Proudly made in China

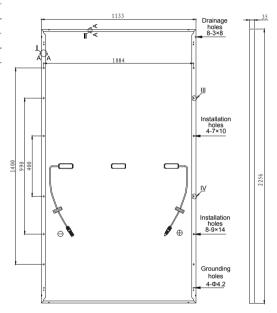
GENERAL CHARACTERISTICS

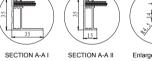
| Dimensions (L x W x H) | 2256 x 1133 x 35mm | | |
|---------------------------|--------------------|--|--|
| Weight | 27.2kg | | |
| Fire Class Rating (UL790) | Class C | | |

PACKAGING SPECIFICATIONS

| Number of modules per pallet | 31 | |
|-------------------------------------|----------------------|--|
| Number of pallets per 40' container | 20 | |
| Packaging box dimensions | 2270 x 1110 x 1245mm | |
| (L x W x H) | | |
| Box weight | 893kg | |

Unit: mm









Enlarge figure III



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

| Yingli Partners: |
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