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 size cell enhances the module’s power output, with the excellent temperature coefficient and comprehensive LID/LeTID degradation suppression technology, allows the module to generate more energy yield once in use.

**Excellent Durability**
The modules meet IEC standard testing requirements and are resistant to salt mist, ammonia, dust and sand, snail trail and PID risks.

**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**

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 factories, homes and utilities around the world. Yingli Solar provides reliable products and services through continuous technological advancement and management innovation.
### YLM-J 3.0 PRO

#### Electrical parameters at Standard Test Conditions (STC*)

<table>
<thead>
<tr>
<th>Module type</th>
<th>Power output $P_{max}$ W</th>
<th>$V_{max}$ V</th>
<th>$I_{max}$ A</th>
<th>$P_{mpp}$ W</th>
</tr>
</thead>
<tbody>
<tr>
<td>YLMooDF54 e2 (0sc=Pmax)</td>
<td>390</td>
<td>395</td>
<td>400</td>
<td>405</td>
</tr>
</tbody>
</table>

*STC: 1000 W·m\(^{-2}\) irradiance, 25°C cell temperature, AM 1.5 spectrum according to EN 60904-3.

#### Power output tolerances

| $\Delta P_{max}$ W | 0 / + 5 |

#### Module efficiency

| $\eta_{max}$ % | 19.97 | 20.23 | 20.48 | 20.74 | 21.00 | 21.25 |

#### Voltage at $P_{max}$

| $V_{oc}$ V | 30.27 | 30.42 | 30.56 | 30.71 | 30.86 | 31.00 |

#### Current at $P_{max}$


#### Open-circuit voltage

| $V_{oc}$ V | 36.80 | 36.90 | 37.00 | 37.10 | 37.20 | 37.30 |

#### Short-circuit current

| $I_{sc}$ A | 13.68 | 13.77 | 13.86 | 13.95 | 14.04 | 14.13 |

*NOCT: open-circuit module operation temperature at 800 W·m\(^{-2}\) irradiance, 25°C cell temperature, AM 1.5 spectrum according to EN 60904-3.

#### Bifacial electrical parameters at Standard Test Conditions (STC*)

| Power output $P_{max}$ W | 426.86 | 432.33 | 437.80 | 443.27 | 448.75 | 454.22 |

#### Voltage at $P_{max}$

| $V_{max}$ V | 30.27 | 30.42 | 30.56 | 30.71 | 30.86 | 31.00 |

#### Current at $P_{max}$

| $I_{max}$ A | 14.10 | 14.21 | 14.33 | 14.43 | 14.54 | 14.65 |

#### Open-circuit voltage

| $V_{oc}$ V | 36.80 | 36.90 | 37.00 | 37.10 | 37.20 | 37.30 |

#### Short-circuit current

| $I_{sc}$ A | 14.97 | 15.07 | 15.17 | 15.27 | 15.37 | 15.47 |

*Bifaciality coefficient is 70% ± 5%.

#### Nominal operating cell temperature (NOCT)

| Temperature coefficient of $P_{max}$ γ %/°C | −0.35 |
| Temperature coefficient of $V_{max}$ β %/°C | −0.28 |
| Temperature coefficient of $I_{max}$ α %/°C | 0.05 |

#### Operating Conditions

- Max. system voltage: 1500 V\(_{dc}\)
- Max. series fuse rating*: 25 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 18
- Glass (material/thickness): low-iron semi-tempered glass / 2.0 mm (front), 2.0 mm (back)
- Frame (material): anodized aluminum alloy
- Junction box (type/protection degree): 3 bypass diodes / ≥ IP68
- Cable (length/cross-sectional area): ± 1200 mm / 4 mm\(^2\)

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**Yingli Energy Development Co., Ltd.**

**service@yingli.com**

Tel: +86–312–8922216