Yingli Solar

Yingli Energy (China) Company Limited, known as “Yingli Solar”, is one of the world’s 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.

IMPROVED POWER
NEVER SETTLE FOR LESS

Choosing the best P-type monocrystalline cells, YLM series modules are making the best out of your system. Trust in the expertise of Yingli and well proven technology.

Higher Durability
The multi-busbar design can decrease the risk of the cell micro-cracks and fingers broken.

High Power Density
High conversion efficiency and more power output per square meter, by lower series resistance and improved light harvesting.

Half-cell Design
Less energy loss cased by shading due to new cell string layout and split J-box, and lower cell connection power loss due to half-cell design.

Optimized dimension
More flexibly in residential and commercial rooftop installation.

Yingli Solar

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### ELECTRICAL PERFORMANCE

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

<table>
<thead>
<tr>
<th>Module type</th>
<th>P_{max} W</th>
<th>V_{oc} V</th>
<th>I_{sc} A</th>
<th>Voc (STC, 25°C) V</th>
<th>Isc (STC, 25°C) A</th>
<th>P_{max} (STC, 25°C) W</th>
<th>P_{max} (NOCT) W</th>
</tr>
</thead>
<tbody>
<tr>
<td>YLM132-45f</td>
<td>488.18</td>
<td>37.50</td>
<td>17.20</td>
<td>45.30</td>
<td>35.21</td>
<td>499.44</td>
<td>491.93</td>
</tr>
<tr>
<td>YLM132-1500V</td>
<td>491.93</td>
<td>37.70</td>
<td>17.24</td>
<td>45.50</td>
<td>35.21</td>
<td>503.20</td>
<td>499.44</td>
</tr>
</tbody>
</table>

**STC:** 1000W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. Average relative efficiency reduction of 3.3% at 200W/m² according to EN 60904-1.

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

<table>
<thead>
<tr>
<th>Power output</th>
<th>P_{max} W</th>
<th>Voltage at P_{max}</th>
<th>V_{oc} V</th>
<th>Current at P_{max}</th>
<th>I_{sc} A</th>
<th>Open-circuit voltage</th>
<th>V_{oc} V</th>
<th>Short-circuit current</th>
<th>I_{sc} A</th>
</tr>
</thead>
<tbody>
<tr>
<td>YLM132-45f</td>
<td>488.18</td>
<td>37.50</td>
<td>17.20</td>
<td>45.30</td>
<td>35.21</td>
<td>45.50</td>
<td>45.70</td>
<td>18.26</td>
<td>4.26</td>
</tr>
<tr>
<td>YLM132-1500V</td>
<td>491.93</td>
<td>37.70</td>
<td>17.24</td>
<td>45.50</td>
<td>35.21</td>
<td>45.70</td>
<td>45.90</td>
<td>18.31</td>
<td>4.31</td>
</tr>
</tbody>
</table>

**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):** 43°C
- **Temperature coefficient of P_{max} (V):** -0.34%/°C
- **Temperature coefficient of V_{oc} (β_{oc}):** -0.25%/°C
- **Temperature coefficient of I_{sc} (α_{sc}):** 0.04%/°C

### OPERATING CONDITIONS

- **Max. system voltage:** 1000V_{dc}/1500V_{ac}
- **Max. series fuse rating:** 30A
- **Operating temperature range:** -40°C to 85°C
- **Max. static load, front (e.g., snow):** 5400Pa
- **Max. static load, back (e.g., wind):** 2400Pa
- **Max. hailstone impact (diameter / velocity):** 25mm / 23m/s

### CONSTRUCTION MATERIALS

- **Front cover (material / thickness):** low iron tempered glass / 3.2mm
- **Cell (quantity / material):** 132/ monocrystalline silicon
- **Frame (material):** anodized aluminum alloy
- **Junction box (protection degree):** IP67
- **Cable (length / cross-sectional area):** 300mm² / 4mm²

### PACKAGING SPECIFICATIONS

- **Number of modules per pallet:** 31
- **Number of pallets per 40' container:** 17
- **Packaging box dimensions (L / W / H):** 1340mm / 1140mm / 2500mm
- **Box weight:** 34kg

### QUALIFICATIONS & CERTIFICATES

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Note: 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. Due to continuous innovation, research and product improvement, 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.