Yingli Green Energy Holding 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.

**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.

**PID Resistant**
Tested in accordance to the standard IEC 62804, our PV modules have demonstrated resistance against PID (Potential Induced Degradation), which translates to security for your investment.

**Advanced Glass**
Our high-transmission glass features a unique anti-reflective coating that directs more light on the solar cells, resulting in a higher energy yield.

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.

**IMPROVED POWER**
NEVER SETTLE FOR LESS

- 21.6% CELL EFFICIENCY
- 10 YEAR PRODUCT WARRANTY
- 0 - 5W POWER TOLERANCE
- 25 Years Linear Warranty

**Yingli Green Energy**
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**GENERAL CHARACTERISTICS**

Dimensions (L / W / H)  
1650mm / 992mm / 35mm  
Weight  
18.5kg

**PACKAGING SPECIFICATIONS**

- Number of modules per pallet: 30  
- Number of pallets per 40' container: 28

**PACKAGING BOX DIMENSIONS**

- 1700mm / 1120mm / 1140mm
- Box weight: 588kg

** OPERATING CONDITIONS**

- Max. system voltage: 1000VDC / 1500VDC  
- Max. series fuse rating: 15A  
- 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 / number of busbars): 60 / monocrystalline silicon / 12 or 5  
- Frame (material): anodized aluminum alloy  
- Junction box (protection degree): ≥ IP67  
- Cable (length / cross-sectional area): 1000mm / 4mm²

**QUALIFICATIONS & CERTIFICATES**


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**ELECTRICAL PERFORMANCE**

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

<table>
<thead>
<tr>
<th>Module type</th>
<th>YLxxx-D-30b (xxx=Pmax)</th>
<th>YLxxx-D-30b 1500V (xxx=Pmax)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power output</td>
<td>Pmax</td>
<td>W</td>
</tr>
<tr>
<td>Power output tolerances</td>
<td>ΔPmax</td>
<td>W</td>
</tr>
<tr>
<td>Module efficiency</td>
<td>ηm</td>
<td>%</td>
</tr>
<tr>
<td>Voltage at Pmax</td>
<td>V</td>
<td>33.3</td>
</tr>
<tr>
<td>Current at Pmax</td>
<td>Impp</td>
<td>A</td>
</tr>
<tr>
<td>Open-circuit voltage</td>
<td>Vmpp</td>
<td>V</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 3.0% at 200W/m² according to EN 60904-1.

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

| Power output | Pmax | W | 232.3 | 228.7 | 225.0 | 217.6 | 213.9 | 210.2 |
| Voltage at Pmax | V | 30.6 | 30.5 | 30.3 | 30.0 | 29.8 | 29.6 |
| Current at Pmax | Impp | A | 7.58 | 7.50 | 7.42 | 7.26 | 7.18 | 7.10 |
| Open-circuit voltage | Vmpp | V | 36.9 | 36.8 | 36.6 | 36.2 | 36.0 | 35.8 |
| Short-circuit current | Isc | A | 8.08 | 8.00 | 7.92 | 7.76 | 7.68 | 7.59 |

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 Pmax: γ %/°C -0.39
- Temperature coefficient of Voc: βVoc %/°C -0.30
- Temperature coefficient of Isc: αIsc %/°C 0.06

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**CONSTRUCTION MATERIALS**

- **Front cover (material / thickness):** low-iron tempered glass / 3.2mm
- **Cell (quantity / material / number of busbars):** 60 / monocrystalline silicon / 12 or 5
- **Frame (material):** anodized aluminum alloy
- **Junction box (protection degree):** ≥ IP67
- **Cable (length / cross-sectional area):** 1000mm / 4mm²

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**QUALIFICATIONS & CERTIFICATES**