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.

YLM 120 CELL

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 caused by shading due to new cell string layout and split J-box, and lower cell connection power loss due to half-cell design.

Bigger Cells with better performance
A slight increase of the size of our cells, Boosts the performance of the newest modules by six percent on average.

22.3% CELL EFFICIENCY
12 YEAR PRODUCT WARRANTY
0 - 5 W POWER TOLERANCE

25 Years Linear Warranty

YINGLISOLAR.COM
YLM 120 CELL

GENERAL CHARACTERISTICS

Dimensions (L / W / H) | 1755mm / 1038mm / 35mm
---|---
Weight | 19.5kg

PACKAGING SPECIFICATIONS

Number of modules per pallet | 30
Number of pallets per 40' container | 26
Packaging box dimensions (L / W / H) | 1795mm / 1110mm / 1185mm
Box weight | 620kg

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 PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

<table>
<thead>
<tr>
<th>Module type</th>
<th>YLxxD-34d 1/2(xxx=Pmax)</th>
<th>YLxxD-34d 1500V 1/2(xxx=Pmax)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power output</td>
<td>P_{max} W</td>
<td>365</td>
</tr>
<tr>
<td>Power output tolerances</td>
<td>ΔP_{max} W</td>
<td>0</td>
</tr>
<tr>
<td>Module efficiency</td>
<td>η</td>
<td>20.04</td>
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<tr>
<td>Voltage at P_{max}</td>
<td>V_{mpp} V</td>
<td>33.85</td>
</tr>
<tr>
<td>Current at P_{max}</td>
<td>I_{mpp} A</td>
<td>10.79</td>
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<tr>
<td>Open-circuit voltage</td>
<td>V_{oc} V</td>
<td>41.05</td>
</tr>
<tr>
<td>Short-circuit current</td>
<td>I_{sc} A</td>
<td>11.27</td>
</tr>
</tbody>
</table>

Electrical parameters at Nominal Operating Cell Temperature (NOCCT)

| Power output | P_{max} W | 270.4 | 274.1 | 277.8 | 281.5 |
| Voltage at P_{max} | V_{mpp} V | 31.3 | 31.5 | 31.7 | 31.9 |
| Current at P_{max} | I_{mpp} A | 8.63 | 8.70 | 8.76 | 8.83 |
| Open-circuit voltage | V_{oc} V | 38.3 | 38.5 | 38.7 | 38.8 |
| Short-circuit current | I_{sc} A | 9.12 | 9.19 | 9.25 | 9.32 |

NOTE: 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} | γ | -0.37
Temperature coefficient of V_{mpp} | β | -0.29
Temperature coefficient of I_{sc} | α | 0.06

OPERATING CONDITIONS

Max. system voltage | 1000V_{dc}/1500V_{dc}
Max. series fuse rating | 20A
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) | 120 / monocrystalline silicon
Frame (material) | anodized aluminum alloy
Junction box (protection degree) | IP67
Cable (length / cross-sectional area) | 400(300)mm² / 4mm²

QUALIFICATIONS & CERTIFICATES


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