Yingli Green Energy (NYSE: YGE) is one of the world’s largest fully vertically integrated PV manufacturers. With over 4.5 GW of modules installed globally, we are a leading solar energy company built upon proven product reliability and sustainable performance. Founded in 1998, Yingli Green Energy serves customers through our U.S. subsidiary, Yingli Americas, co-headquartered in New York and San Francisco. We are the first renewable energy company to sponsor the U.S. National Soccer teams and the FIFA World Cup™.

**PERFORMANCE**
- Industry leading in-house manufacturing of polysilicon, ingots, wafers, cells and modules ensures tight control of our material and production quality.
- High performance, multicrystalline solar cells deliver a module series efficiency of up to 15.6%, reducing installation costs and maximizing the kWh output per unit area.
- Tight positive power tolerance of -0W to +5W ensures modules are delivered at or above rated power, improving system performance through the reduction of module mismatch loss.

**QUALITY & RELIABILITY**
- Robust, corrosion resistant aluminum frame independently tested to withstand wind and snow loads of up to 50 psf and 113 psf, respectively, ensuring mechanical stability.
- Manufacturing facility certified to ISO9001 Quality Management System standards.
- Module packaging optimized to protect product during transportation and minimize on-site waste.

**WARRANTIES**
- Leading limited power warranty* ensures 91.2% of rated power for 10 years, and 80.7% of rated power for 25 years.
- 10-year limited product warranty.

*In compliance with our warranty terms and conditions.

**QUALIFICATIONS & CERTIFICATES**
**GE 72 CELL SERIES**

**ELECTRICAL PERFORMANCE**

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

<table>
<thead>
<tr>
<th>Module type</th>
<th>YL305P-35b</th>
<th>YL300P-35b</th>
<th>YL295P-35b</th>
<th>YL290P-35b</th>
<th>YL285P-35b</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power output $P_{max}$ W</td>
<td>305</td>
<td>300</td>
<td>295</td>
<td>290</td>
<td>285</td>
</tr>
<tr>
<td>Power output tolerances $\Delta P_{max}$ W</td>
<td>0/5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Module efficiency $\eta_{STC}$ %</td>
<td>15.6</td>
<td>15.4</td>
<td>15.1</td>
<td>14.9</td>
<td>14.6</td>
</tr>
<tr>
<td>Voltage at $P_{max}$ $V_{mpp}$ V</td>
<td>37.0</td>
<td>36.7</td>
<td>36.3</td>
<td>35.8</td>
<td>35.5</td>
</tr>
<tr>
<td>Current at $P_{max}$ $I_{mpp}$ A</td>
<td>8.25</td>
<td>8.17</td>
<td>8.12</td>
<td>8.10</td>
<td>8.02</td>
</tr>
<tr>
<td>Open-circuit voltage $V_{oc}$ V</td>
<td>46.3</td>
<td>46.3</td>
<td>45.4</td>
<td>45.3</td>
<td>45.0</td>
</tr>
<tr>
<td>Short-circuit current $I_{sc}$ A</td>
<td>8.87</td>
<td>8.77</td>
<td>8.63</td>
<td>8.62</td>
<td>8.50</td>
</tr>
</tbody>
</table>

**THERMAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Nominal operating cell temperature NOCT °C</th>
<th>46 +/- 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature coefficient of $P_{max}$ γ %/°C</td>
<td>-0.45</td>
<td></td>
</tr>
<tr>
<td>Temperature coefficient of $V_{oc}$ β $V_{oc}$%/°C</td>
<td>-0.33</td>
<td></td>
</tr>
<tr>
<td>Temperature coefficient of $I_{sc}$ α $I_{sc}$%/°C</td>
<td>0.06</td>
<td></td>
</tr>
<tr>
<td>Temperature coefficient of $V_{mpp}$ β $V_{mpp}$%/°C</td>
<td>-0.45</td>
<td></td>
</tr>
</tbody>
</table>

**OPERATING CONDITIONS**

- Max. system voltage: 600Vc
- Max. series fuse rating: 15A
- Limiting reverse current: 15A
- Operating temperature range: -40 to 194°F (-40 to 90°C)
- Max. static load, front (e.g., snow and wind): 113 psf (5400 Pa)
- Max. static load, back (e.g., wind): 50 psf (2400 Pa)
- Hailstone impact: 1 in (25 mm) at 51 mph (23 m/s)

**CONSTRUCTION MATERIALS**

- Front cover (material/type/thickness): Low-iron glass / tempered / 4.0 mm
- Glass may have anti-reflective coating
- Cell (quantity/material/type/dimensions/area/# of busbars): 72 / polysilicon / multicrystalline / 156 mm x 156 mm / 243.3 cm² / 2 or 3
- Encapsulant (material): Ethylene vinyl acetate (EVA)
- Frame (material/color): Anodized aluminum alloy / silver
- Junction box (protection degree): ≥ IP65
- Cable (type/length/gauge/outside diameter): PV Wire / 47.24 in (1200 mm) / 12 AWG / 0.244 in (6.2 mm)
- Plug connector (manufacturer/type/protection degree): Amphenol / H4 / IP68 or Multi Contact / MCA / IP67

**PACKAGING SPECIFICATIONS**

- Number of modules per pallet: 21
- Number of pallets per 53’ container: 28
- Packaging box dimensions (L/W/H): 78 in (1990 mm) / 45 in (1130 mm) / 46 in (1170 mm)
- Box weight: 1351 lbs (613 kg)

**GENERAL CHARACTERISTICS**

- Dimensions (L/W/H): 77.56 in (1970 mm) / 38.98 in (990 mm) / 1.97 in (50 mm)
- Weight: 59.1 lbs (26.8 kg)

**OUR PARTNERS**

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Tel: +1 (888) 686-8820

**York Solar**

U.S. Soccer Powered by Yingli Solar

The specifications in this datasheet are not guaranteed and are subject to change without prior notice. This datasheet complies with EN 50380:2003 requirements.