5BB POLY CRYSTALLINE SOLAR PV MODULES

EXTREMELY RELIABLE PRODUCT SUITING ALL ENVIRONMENT CONDITIONS
100% EL TESTED TO ENSURE DEFECT FREE MODULES
CERTIFIED FOR PID RESISTANCE
CERTIFIED FOR SALT MIST CORROSION RESISTANCE
SUPERIOR LOW LIGHT IRRADIATION PERFORMANCE 200W/m²
POSITIVE GUARANTED TOLERANCE

APPLICATIONS
- Solar pumping applications
- Solar Home Appliances
- Solar Street Lights
## TECHNICAL DATA

**POLY 36 CUT CELLS MODULE SERIES**

### Electrical Data All Data refers to STC (AM 1.5, 1000 W/m², 25°C)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PREL 005</th>
<th>PREL 010</th>
<th>PREL 020</th>
<th>PREL 040</th>
<th>PREL 050</th>
<th>PREL 060</th>
<th>PREL 075</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak power, $P_{max}$ (Wp)</td>
<td>5</td>
<td>10</td>
<td>20</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>75</td>
</tr>
<tr>
<td>Maximum voltage, $V_{mpp}$ (V)</td>
<td>8.72</td>
<td>17.03</td>
<td>17.08</td>
<td>17.84</td>
<td>17.89</td>
<td>18.04</td>
<td>18</td>
</tr>
<tr>
<td>Maximum current, $I_{mpp}$ (A)</td>
<td>0.58</td>
<td>0.59</td>
<td>1.18</td>
<td>2.25</td>
<td>2.8</td>
<td>3.35</td>
<td>4.17</td>
</tr>
<tr>
<td>Short circuit current, $I_{sc}$ (A)</td>
<td>0.65</td>
<td>0.63</td>
<td>1.26</td>
<td>2.44</td>
<td>3.04</td>
<td>3.59</td>
<td>4.49</td>
</tr>
<tr>
<td>Module efficiency (%)</td>
<td>11.48</td>
<td>11.87</td>
<td>12.78</td>
<td>14.79</td>
<td>14.38</td>
<td>14.65</td>
<td>15.08</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solar Cells Per Module</th>
<th>36</th>
<th>36</th>
<th>36</th>
<th>36</th>
<th>36</th>
<th>36</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (L) x Width (W) x Thickness (T)</td>
<td>250x195x17</td>
<td>265x345x17</td>
<td>350x475x17</td>
<td>431x665x35</td>
<td>550x665x35</td>
<td>645x665x35</td>
<td>780x665x35</td>
</tr>
<tr>
<td>Weight in Kg</td>
<td>0.80</td>
<td>1.35</td>
<td>1.98</td>
<td>3.82</td>
<td>4.30</td>
<td>4.60</td>
<td>6.4</td>
</tr>
<tr>
<td>Mounting Pitch (Hole to Hole Distance)</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>250 mm</td>
<td>275 mm</td>
<td>320 mm</td>
<td>395 mm</td>
</tr>
<tr>
<td>Junction Box</td>
<td>Weather proof PPO enclosure</td>
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</tr>
</tbody>
</table>

### Other Specifications

- **MODEL**: PREL 005, PREL 010, PREL 020, PREL 040, PREL 050, PREL 060, PREL 075
- **Solar Cells Per Module**: 36
- **Weight in Kg**: 0.80, 1.35, 1.98, 3.82, 4.30, 4.60, 6.4
- **Mounting Pitch (Hole to Hole Distance)**: 250 mm, 275 mm, 320 mm, 395 mm
- **Junction Box**: Weather proof PPO enclosure

### Warranty and Certifications

- **Product Warranty**: 10 years
- **Performance Warranty**: Linear Power Warranty for 25 year with 2.5% for 1st year degradation and 0.67% from year 2 to year 25
- **Approvals and certificates**: IEC 61215, IEC 61730, IEC 61701, IEC 62804, IS14286, IS 61730

* **Module Efficiency as per Aperture area**

** Refer to PATANJALI RENEWABLE ENERGY'S warranty document for terms and conditions.

** CAUTION**: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order.

PREL/ENG/TDS/06-Rev. 01
TDS-SBB-Poly-36 Cut Cells

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