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 GUARANTEED TOLERANCE

APPLICATIONS
- Solar pumping applications
- Solar Home Appliances
- Solar Street Lights

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**TECHNICAL DATA**

**POLY 36 FULL 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 150W</th>
<th>PREL 155W</th>
<th>PREL 160W</th>
<th>PREL 165W</th>
<th>PREL 170W</th>
<th>PREL 175W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak power, (0- + 4.99 Wp) Pmax (Wp)</td>
<td>150</td>
<td>155</td>
<td>160</td>
<td>165</td>
<td>170</td>
<td>175</td>
</tr>
<tr>
<td>Maximum voltage, Vmpp (V)</td>
<td>18.8</td>
<td>18.95</td>
<td>19.11</td>
<td>19.22</td>
<td>19.38</td>
<td>19.39</td>
</tr>
<tr>
<td>Maximum current, Impp (A)</td>
<td>8.02</td>
<td>8.18</td>
<td>8.38</td>
<td>8.6</td>
<td>8.78</td>
<td>9.05</td>
</tr>
<tr>
<td>Open Circuit Voltage, Voc (V)</td>
<td>22.9</td>
<td>23.12</td>
<td>23.15</td>
<td>23.29</td>
<td>23.4</td>
<td>23.6</td>
</tr>
<tr>
<td>Short circuit current, Isc (A)</td>
<td>8.57</td>
<td>8.69</td>
<td>8.93</td>
<td>9.14</td>
<td>9.32</td>
<td>9.65</td>
</tr>
<tr>
<td>Module efficiency (%)</td>
<td>15.63%</td>
<td>16.15%</td>
<td>16.67%</td>
<td>17.19%</td>
<td>17.71%</td>
<td>18.23%</td>
</tr>
</tbody>
</table>

*STC Irradiance 1000 W/m², cell temperature 25°C, air mass AM1.5 according to EN 60904-3. Average efficiency reduction of 0.5% at 200 W/m² according to EN 60904-1.

**Temperature co-efficients (TC) permissible operating conditions**

- TC of open circuit voltage (U) | -0.27 %/°C
- TC of short circuit current (Is) | 0.024 %/°C
- TC of power (P) | -0.40 %/°C
- Maximum system voltage | 1000 V
- NOCT | 46°C ± 2°C
- Temperature range | -40°C to +85°C

**Mechanical Data**

- Length x Width x Height | 1490 x 670 x 35 mm
- Weight | 11.2 kg ± 0.500 kg
- Junction Box | IP67 2 Bypass diodes
- Cable & Connectors | OPTIONAL
- Application Class | Class A (Safety Class III)
- Superstrate | High transmittance ARC Glass
- Cells | 36 Polycrystalline solar cells
- Cell Encapsulant | EVA (Ethylene Vinyl Acetate)
- Back Sheet | Composite Film
- Frame | Anodized aluminium frame with twin wall profile
- Mechanical Load Test | 5400 pa-front, 2400 pa-back
- Maximum Series Fuse Rating | 15 A

**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/05-Rev. 01
TDS-5BB-Poly-36 Full Cells

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