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

Off grid residential systems

On-grid rooftop residential, commercial and industrial roof top installations
TECHNICAL DATA

POLY 60 CELLS MODULE SERIES

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

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>MODEL</th>
<th>PREL 250W</th>
<th>PREL 255W</th>
<th>PREL 260W</th>
<th>PREL 265W</th>
<th>PREL 270W</th>
<th>PREL 275W</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Peak power, (Pp = 4.99 Wp) Pmax (Wp)</td>
<td>250</td>
<td>255</td>
<td>260</td>
<td>265</td>
<td>270</td>
<td>275</td>
</tr>
<tr>
<td>2</td>
<td>Maximum voltage, Vmpp (V)</td>
<td>30.59</td>
<td>30.81</td>
<td>31.11</td>
<td>31.41</td>
<td>31.71</td>
<td>31.83</td>
</tr>
<tr>
<td>3</td>
<td>Maximum current, Impp (A)</td>
<td>8.19</td>
<td>8.29</td>
<td>8.38</td>
<td>8.45</td>
<td>8.53</td>
<td>8.64</td>
</tr>
<tr>
<td>4</td>
<td>Open Circuit Voltage, Voc (V)</td>
<td>37.46</td>
<td>38.01</td>
<td>38.11</td>
<td>38.61</td>
<td>38.81</td>
<td>38.50</td>
</tr>
<tr>
<td>5</td>
<td>Short circuit current, Isc (A)</td>
<td>8.71</td>
<td>8.93</td>
<td>8.99</td>
<td>9.04</td>
<td>9.1</td>
<td>9.22</td>
</tr>
<tr>
<td>6</td>
<td>Module efficiency (%)</td>
<td>15.83</td>
<td>16.15</td>
<td>16.46</td>
<td>16.78</td>
<td>17.10</td>
<td>17.41</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 5% at 200 W/m² according to EN 60904-1.

Electrical Parameters at NOCT

<table>
<thead>
<tr>
<th>Power (Wp) at NOCT</th>
<th>184.40</th>
<th>188.20</th>
<th>191.50</th>
<th>195.80</th>
<th>199.10</th>
<th>200.70</th>
</tr>
</thead>
<tbody>
<tr>
<td>V@Pmax (V) at NOCT</td>
<td>27.32</td>
<td>27.66</td>
<td>27.71</td>
<td>28.01</td>
<td>28.08</td>
<td>28.10</td>
</tr>
<tr>
<td>I@Pmax (A) at NOCT</td>
<td>6.75</td>
<td>6.83</td>
<td>6.91</td>
<td>6.99</td>
<td>7.09</td>
<td>7.15</td>
</tr>
<tr>
<td>Voc (V) at NOCT</td>
<td>34.75</td>
<td>34.88</td>
<td>34.92</td>
<td>35.08</td>
<td>35.10</td>
<td>35.70</td>
</tr>
<tr>
<td>Isc (A) at NOCT</td>
<td>7.23</td>
<td>7.30</td>
<td>7.37</td>
<td>7.45</td>
<td>7.52</td>
<td>7.62</td>
</tr>
</tbody>
</table>

NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Temperature co-efficients (TC) permissible operating conditions

- TC of open circuit voltage (V) -0.29 %/°C
- TC of short circuit current (A) -0.057% /°C
- TC of power (W) -0.38 %/°C
- Maximum system voltage 1000/1500 V
- NOCT 46°C ± 2°C
- Temperature range -40°C to +85°C

Mechanical Data

- Length x Width x Height 1641 x 991 x 35 mm
- Weight 18 kg ± 0.500 kg
- Junction Box IP67 / IP68 3 Bypass diodes
- Cable & Connectors 1000mm/1200mm length cables & MC4 Connectors
- Application Class Class A (Safety Class II)
- Superstrate High transmittance ARC Glass
- Cells 60 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, I5E14286, I5E1730

* 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/03-Rev. 01
TDS-5BB-Poly-60 Cells

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Packaging Information

Qty.: 25 in 1 Box
Qty.: 02 in 1 Box

Patanjali Anant Ugra Srot...