CertainTeed Solar

US SERIES 60 CELL SOLAR MODULES

Features and Benefits

- High Quality / High Power
  - 300W Black Backsheet, 305W White Backsheet
  - UL listed (UL 1703)
  - Output power tolerance +3/-0%
  - PID Free

Limited Warranty*

- 10-year product warranty
- 25-year linear power output warranty

*See CertainTeed’s limited warranty for details

Power Output Warranty

MADE IN USA using foreign and domestic components
## Electrical Characteristics

<table>
<thead>
<tr>
<th>Spec</th>
<th>290W</th>
<th>295W</th>
<th>300W</th>
<th>305W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Output (Pmpp)</td>
<td>W</td>
<td>290</td>
<td>295</td>
<td>300</td>
</tr>
<tr>
<td>Voltage at Pmax (Vmpp)</td>
<td>V</td>
<td>32.0</td>
<td>32.2</td>
<td>32.5</td>
</tr>
<tr>
<td>Current at Pmax (Impp)</td>
<td>A</td>
<td>9.1</td>
<td>9.2</td>
<td>9.2</td>
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<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>V</td>
<td>39.8</td>
<td>40.1</td>
<td>40.5</td>
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<tr>
<td>Short Circuit Current (Isc)</td>
<td>A</td>
<td>9.6</td>
<td>9.8</td>
<td>9.9</td>
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<tr>
<td>Output Tolerance</td>
<td>%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. of Cells &amp; Connections</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Type</td>
<td></td>
<td></td>
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<tr>
<td>Module Efficiency</td>
<td>%</td>
<td>17.7</td>
<td>18.1</td>
<td>18.4</td>
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<tr>
<td>Temperature Coefficient of Pmpp</td>
<td>%/C</td>
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<td>-0.38</td>
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<tr>
<td>Temperature Coefficient of Voc</td>
<td>%/C</td>
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<td>-0.28</td>
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</tr>
<tr>
<td>Temperature Coefficient of Isc</td>
<td>%/C</td>
<td></td>
<td>-0.04</td>
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</tr>
</tbody>
</table>

## Mechanical Characteristics

- **Laminate**: Glass: 3.2 high transmission, tempered, anti-reflective
  Encapsulant: EVA
  Backsheet: Weatherproof film (black/white)
- **Frame**: Anodized aluminum (Black)
- **Junction Box**: IP68, IEC certified, UL listed
- **Output Cables**: 4 mm² (12AWG) cables, Length 1.0m (39.4”)
- **Connectors**: Polarized MC4 compatible
  Weatherproof, IEC certified, UL listed
- **Weight**: 19.0 kg (41.9 lbs)

## Dimensions

- **Distance between mounting holes**: 948 mm (37.3”)
- **Distance between grounding holes**: 491 mm (19.3”)

## Operating Conditions

- **Nominal Operating Cell Temperature**: 46° C + 2
- **Operating Temperature**: -40 to 85° C
- **Maximum System Voltage**: 1000v
- **Maximum Series Fuse Rating**: 20A
- **Fire Performance**: Type 2
- **Maximum Wind Load**: 30 lbs/ft²