Polycrystalline

270/275/280

Made In USA & Made Abroad Lines

Features

- Top Ranked PTC Rating
- High Module Conversion Efficiency
- Fast and Inexpensive Mounting
- Maximizes System Output by Reducing the Mismatch Loss.
- 100% EL Testing on All ASW Modules, Guaranteed No Hotspot
- Guaranteed Positive Output Tolerance (0+3%)
- Withstand High Wind (2400 Pa) and Snow Loads (5400 Pa)
- Excellent Performance in Low Light Environments

Function

- On-grid Rooftop / Ground Mounted
- Residential / Commercial / Power Stations

Precautions

Only qualified personnel should install or perform maintenance. Please read the American Solar wholesale Installation Manual before installation. Be aware of dangerously high DC voltage. Do not install modules when wet or broken.

Linear Warranty

All ASW solar modules are guaranteed to perform for 25 years from the date of purchase. Performance standards ensure linear production levels starting at 97.5% at the end of the first year and a maximum decrease of only .07% each year thereafter.

- 5 years at 95% or above
- 5 more years at 90% or above
- 15 more years at 80% or above
- 10 year material & workmanship guarantee

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## Electrical

<table>
<thead>
<tr>
<th>Specification</th>
<th>270 W</th>
<th>275 W</th>
<th>280 W</th>
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<tbody>
<tr>
<td>Maximum Power at STC (Pmax)</td>
<td>270 W</td>
<td>275 W</td>
<td>280 W</td>
</tr>
<tr>
<td>PV USA Test Conditions (PTC)</td>
<td>246.4</td>
<td>251.0</td>
<td>255.5</td>
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<tr>
<td>Optimum Operating Voltage (Vmp)</td>
<td>36.29 V</td>
<td>36.42 V</td>
<td>36.58 V</td>
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<tr>
<td>Optimum Operating Current (Imp)</td>
<td>7.44 A</td>
<td>7.55 A</td>
<td>7.65 A</td>
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<tr>
<td>Open-Circuit Voltage (Voc)</td>
<td>43.63 A</td>
<td>43.74 A</td>
<td>43.78 A</td>
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<tr>
<td>Short-Circuit Current (Isc)</td>
<td>7.86 A</td>
<td>7.91 A</td>
<td>7.93 A</td>
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<tr>
<td>Module Efficiency</td>
<td>13.96 %</td>
<td>14.22 %</td>
<td>14.47 %</td>
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<tr>
<td>Cell Efficiency</td>
<td>15.9 %</td>
<td>16.1 %</td>
<td>16.5 %</td>
</tr>
</tbody>
</table>

STC: Irradiance 1000 W m⁻², module temperature 25°C, AM=1.5

## Mechanical

- Solar Cell: Polycrystalline 156 x 156 mm (6 inches)
- No. of Cells: 72 (6 x 12)
- Dimensions: 1954 x 990 x 50 mm (76.9 x 39.0 x 2.0 inches)
- Weight: 23.0 kgs (50.6 lbs)
- Front Glass: 3.2 mm (0.13 inches) tempered glass
- Frame: Anodized aluminum alloy
- Junction Box: IP65, IP67 rated
- Output Cables: 4.0 mm² (0.006 inches²), 1000mm (39.4 inches)
- Connectors: MC4 connectors
- Fire Rating: Class C
- UL Listed: UL 1703

## Temperatures

- Nominal Operating Cell Temperature (NOCT): 45±2°C
- Temperature Coefficient of Pmax: -0.44%/°C
- Temperature Coefficient of Voc: -0.30%/°C
- Temperature Coefficient of Isc: 0.04%/°C

## Maximum Ratings

- Operating Module Temperature: -40°C to -90°C
- Maximum System Voltage: 600 V DC (UL) / 1000 V DC (IEC)
- Maximum Series Fuse Rating: 15 A

## Packaging

- Per Pallet: 21 pcs (20° CTN) / 23 pcs (40° CTN)
- Per Container: 10 pcs (20° CTN) / 552 pcs (40° CTN)