Superior Energy Yield
• Up to 10% more energy than crystalline silicon in most climates
• Industry leading temperature coefficient (-0.26%/°C) provides greater energy yield in most operating conditions
• Proprietary cell and circuit design minimizes impact of shade and debris
  CEC listed, PTC/STC ratio of 92.9%

Leading Performance and Reliability
• Potential Induced Degradation (PID) resistant and free of Light Induced Degradation (LID) effects
• Designed and tested to survive harsh conditions

Certifications and Advanced Tests
• IEC 61646 1000V, IEC 61730 1000V, CE
• UL1703 1000V Class C Fire Rating (Class A Flame Spread), Fire Type 3
• PID Free, IEC 61701 Salt Mist (severity 6)
• ISO 9001:2008
• CSI Eligible (CA-USA), CEC Listed (Australia), OGPE (Puerto Rico)
• Restriction of Hazardous Substances (RoHS) compliant

Circuit Protection System®
• Proprietary Circuit Protection System®
• Moisture Ingress Protection
• Dual Glass Durability
• Resistant to effects of Potential Induced Degradation (PID)

Made in the USA
• All of Stion's modules are designed and manufactured in the United States under the highest quality standards
Electrical Data

<table>
<thead>
<tr>
<th>Nominal Power, Pmax (W)</th>
<th>135</th>
<th>140</th>
<th>145</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Efficiency (%)</td>
<td>12.4%</td>
<td>12.9%</td>
<td>13.3%</td>
<td>13.8%</td>
</tr>
<tr>
<td>Vmpp (V)</td>
<td>58.2</td>
<td>59.8</td>
<td>61</td>
<td>62.7</td>
</tr>
<tr>
<td>Imp (A)</td>
<td>2.32</td>
<td>2.34</td>
<td>2.38</td>
<td>2.39</td>
</tr>
<tr>
<td>Voc (V)</td>
<td>77.4</td>
<td>78.8</td>
<td>79.6</td>
<td>80.8</td>
</tr>
<tr>
<td>Isc (A)</td>
<td>2.62</td>
<td>2.65</td>
<td>2.68</td>
<td>2.72</td>
</tr>
<tr>
<td>Series Fuse Rating (A)</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum System Voltage (V-dc)</td>
<td>1000 (UL &amp; IEC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temp. Coefficient (Pmpp)</td>
<td>-0.26%/°C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temp Coefficient (Voc)</td>
<td>-0.24%/°C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temp Coefficient (ISC)</td>
<td>0.004%/°C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Factory Binning (W)</td>
<td>+/- 2.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOCT**</td>
<td>45.6°C</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Measured at Standard Testing Conditions (STC): 25°C, 1000 W/m², AM 1.5 after factory light soaking. All ratings are ±10% unless noted otherwise.

** Normal Operating Cell Temperatures (NOCT): 800 W/m², 20°C air temperature, 1m/s wind speed

Relative efficiency reduction of maximum power from an irradiance of 1,000 W/m² to 200 W/m² at 25°C is approximately 7% with a standard deviation of 3%.

Normal Operating Cell Temperature Conditions

<table>
<thead>
<tr>
<th>Nominal Power, Pmax (W)</th>
<th>102</th>
<th>106</th>
<th>110</th>
<th>114</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vmpp (V)</td>
<td>53.8</td>
<td>55.3</td>
<td>56.4</td>
<td>58</td>
</tr>
<tr>
<td>Imp (A)</td>
<td>1.91</td>
<td>1.92</td>
<td>1.95</td>
<td>1.96</td>
</tr>
<tr>
<td>Voc (V)</td>
<td>70.3</td>
<td>71.5</td>
<td>72.3</td>
<td>73.3</td>
</tr>
<tr>
<td>Isc (A)</td>
<td>2.17</td>
<td>2.19</td>
<td>2.22</td>
<td>2.25</td>
</tr>
</tbody>
</table>

I-V Curves

- 135 I-V Curve
- 140 I-V Curve
- 145 I-V Curve
- 150 I-V Curve

Warranty and Qualifications

- Limited Power: 90% at 10 years, 80% at 25 years
- Workmanship: 10 years

Mechanical Data

- Width: 25.8 in (656 mm)
- Length: 65.2 in (1656 mm)
- Thickness: 1.4 in (35.0 mm)
- Weight: 37.0 lbs (16.8 kg)
- Total Area: 11.68 ft² (1.09 m²)
- Cable: PV Wire, 14 AWG Cable 39 3/8 in (1 m)
- Connectors: MC-4 type
- J-Box: IP 67 rated
- Frame: Black Anodized Aluminum
- Front Glass: 3.2mm tempered with anti-reflective coating
- Back Glass: 2.1mm annealed float
- Mechanical / Wind Load: 2400 Pa (50 psf)

Industry Leading Warm Temperature Performance

- DC Power Output, Relative to STC: 70%, 80%, 90%, 100%, 110%, 120%
- Typical Operating Range: Module Temperature (°C)
- 70%: 0 to 30
- 80%: 30 to 50
- 90%: 50 to 70
- 100%: 70 to 90
- 110%: 90 to 120

Packaging Configuration

- STO: Modules Per Box: 25
- Modules Per 40’ Container: 975