Manufacturer: Samil Power Co., Ltd.
Model #: SolarRiver7000TL-US-277V

Rated Maximum Continuous Output Power @25°C: 7.000 kW  
Rated Maximum Continuous Output Power @40°C: 7.000 kW
Night Tare Loss: 0.45 W  
Night Tare Loss: 0.45 W

Vmin: 250 Vdc  
Vnom: 400 Vdc  
Vmax: 480 Vdc

<table>
<thead>
<tr>
<th>Input Voltage (Vdc)</th>
<th>10%</th>
<th>20%</th>
<th>30%</th>
<th>50%</th>
<th>75%</th>
<th>100%</th>
<th>Wtd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vmin 250</td>
<td>91.2</td>
<td>94.7</td>
<td>95.9</td>
<td>96.8</td>
<td>97.0</td>
<td>96.9</td>
<td>96.470</td>
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<tr>
<td>Vnom 400</td>
<td>93.5</td>
<td>96.4</td>
<td>97.1</td>
<td>97.7</td>
<td>97.7</td>
<td>97.7</td>
<td>97.415</td>
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<tr>
<td>Vmax 480</td>
<td>94.9</td>
<td>97.1</td>
<td>97.6</td>
<td>98.1</td>
<td>98.1</td>
<td>98.0</td>
<td>97.846</td>
</tr>
</tbody>
</table>

CEC Efficiency = 97.0%
## Inverter Efficiency Data

<table>
<thead>
<tr>
<th>Specified Voltage</th>
<th>Sample #1</th>
<th>Sample #2</th>
<th>Sample #3</th>
<th>Sample #4</th>
<th>Sample #5</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Vdc) (W) (Vdc) (%)</td>
<td>(Vdc) (W) (Vdc) (%)</td>
<td>(Vdc) (W) (Vdc) (%)</td>
<td>(Vdc) (W) (Vdc) (%)</td>
<td>(Vdc) (W) (Vdc) (%)</td>
<td>(Vdc) (W) (Vdc) (%)</td>
</tr>
<tr>
<td>10% Vmin</td>
<td>640.41</td>
<td>253.71</td>
<td>91.14</td>
<td>640.44</td>
<td>253.76</td>
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<tr>
<td>20% Vmin</td>
<td>1410.90</td>
<td>253.72</td>
<td>94.76</td>
<td>1409.87</td>
<td>253.71</td>
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<tr>
<td>30% Vmin</td>
<td>2029.27</td>
<td>253.42</td>
<td>95.91</td>
<td>2029.13</td>
<td>253.45</td>
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<tr>
<td>50% Vmin</td>
<td>3562.57</td>
<td>253.13</td>
<td>96.83</td>
<td>3567.03</td>
<td>253.01</td>
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<tr>
<td>75% Vmin</td>
<td>5081.67</td>
<td>252.51</td>
<td>96.98</td>
<td>5081.60</td>
<td>252.50</td>
</tr>
<tr>
<td>100% Vmin</td>
<td>6874.87</td>
<td>253.04</td>
<td>96.88</td>
<td>6875.30</td>
<td>253.05</td>
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<tr>
<td>10% Vnom</td>
<td>640.02</td>
<td>405.04</td>
<td>93.52</td>
<td>639.78</td>
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<tr>
<td>20% Vnom</td>
<td>1471.37</td>
<td>404.90</td>
<td>94.45</td>
<td>1471.13</td>
<td>404.89</td>
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<tr>
<td>30% Vnom</td>
<td>2992.50</td>
<td>405.08</td>
<td>96.88</td>
<td>2992.03</td>
<td>405.08</td>
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<tr>
<td>50% Vnom</td>
<td>3646.67</td>
<td>404.67</td>
<td>97.70</td>
<td>3646.70</td>
<td>404.72</td>
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<tr>
<td>75% Vnom</td>
<td>5175.90</td>
<td>404.21</td>
<td>97.74</td>
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<td>404.14</td>
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<tr>
<td>100% Vnom</td>
<td>6904.47</td>
<td>403.85</td>
<td>96.77</td>
<td>6903.13</td>
<td>403.94</td>
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<tr>
<td>10% Vmax</td>
<td>650.86</td>
<td>475.97</td>
<td>94.90</td>
<td>650.57</td>
<td>475.92</td>
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<tr>
<td>20% Vmax</td>
<td>1476.13</td>
<td>475.50</td>
<td>97.12</td>
<td>1476.03</td>
<td>475.58</td>
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<tr>
<td>30% Vmax</td>
<td>2121.10</td>
<td>475.34</td>
<td>97.61</td>
<td>2120.07</td>
<td>475.39</td>
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<tr>
<td>50% Vmax</td>
<td>3625.30</td>
<td>475.98</td>
<td>98.07</td>
<td>3625.40</td>
<td>476.03</td>
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<tr>
<td>75% Vmax</td>
<td>5106.43</td>
<td>474.75</td>
<td>97.09</td>
<td>5106.70</td>
<td>474.89</td>
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<tr>
<td>100% Vmax</td>
<td>6851.93</td>
<td>473.84</td>
<td>98.00</td>
<td>6852.20</td>
<td>473.68</td>
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</tbody>
</table>

### Minimum of 5 samples required