**SII SERIES**

Multiple upgrades were forged into one

425-440W

* **SII SERIES**
  Seraphim redefined the high-efficiency module series by integrating 158.75mm silicon wafers with PERC and half-cut cell technologies. Seraphim panel combined creative technology effectively and extremely improved the module efficiency and power out.

* **KEY FEATURES**
  - Less mismatch to get more power
  - Less power loss by minimizing the shading impact
  - Competitive low light performance
  - 3 times EL test to ensure best quality
  - Ideal choice for utility and commercial scale projects by reduced BOS and improve ROI.
  - Outstanding reliability proven by PVEL for stringent environment condition:
  - sand, acid, and alkali, hail stones,
  - 2400pa wind load and 5400pa snow load.
  - Anti-PID

* **QUALITY SYSTEM**
  ISO19001 / ISO14001 / OHSAS18001

* **PRODUCT CERTIFICATION**
  CE | PV Module | CEC

* **INSURANCE**
  PICC

* **WARRANTY**
  Additional Value from Linear Warranty
  15% 95%
  10% 93%
  5% 90%
  0% 85%
  0% 80%

  15 years Guarantee on product material and workmanship
  30 years Linear power output warranty

JIANGSU SERAPHIM SOLAR SYSTEM CO., LTD
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Tel: +86-519-69699879 Fax: +86-519-88786181 Email: info@seraphim-energy.com
Technical drawing

Mechanical Specifications

- **External Dimension**: 2198 x 1008 x 30mm
- **Weight**: 28.5kg
- **Solar Cells**: PERC Mono (156pcs)
- **Front / Back Glass**: 2.0mm AR coating semi-tempered glass, low iron
- **Frame**: Anodized aluminium alloy
- **Junction Box**: IP68, 3 diodes
- **Output Cables**: 4.0 mm², Portrait:255mm(+)/355mm(-);Landscape:1300mm

Packing Configuration

- **Container**: 40’HQ
- **Pieces per Pallet**: 32
- **Pallets per Container**: 20
- **Pieces per Container**: 640

Electrical Characteristics

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>STC</td>
<td>Front</td>
<td>Back</td>
<td>Front</td>
<td>Back</td>
</tr>
<tr>
<td>Maximum Power - (P_{mp}) (W)</td>
<td>425</td>
<td>318</td>
<td>430</td>
<td>322</td>
</tr>
<tr>
<td>Open Circuit Voltage - (V_{oc}) (V)</td>
<td>52.3</td>
<td>52.1</td>
<td>52.5</td>
<td>52.2</td>
</tr>
<tr>
<td>Short Circuit Current - (I_{sc}) (A)</td>
<td>10.33</td>
<td>7.77</td>
<td>10.41</td>
<td>7.84</td>
</tr>
<tr>
<td>Maximum Power Voltage - (V_{mp}) (V)</td>
<td>43.9</td>
<td>43.6</td>
<td>44.1</td>
<td>43.7</td>
</tr>
<tr>
<td>Maximum Power Current - (I_{mp}) (A)</td>
<td>9.69</td>
<td>7.30</td>
<td>9.76</td>
<td>7.37</td>
</tr>
<tr>
<td>Module Efficiency STC-(\eta_m) (%)</td>
<td>19.18</td>
<td>19.41</td>
<td>19.63</td>
<td>19.86</td>
</tr>
</tbody>
</table>

- **Power Tolerance** (W)
- **Pmax Temperature Coefficient**: -0.36 %/°C
- **Voc Temperature Coefficient**: -0.28 %/°C
- **Isc Temperature Coefficient**: 0.05 %/°C

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5

Rear Side Power Gain(SRP-440-BMZ-BG)

<table>
<thead>
<tr>
<th>Power Gain</th>
<th>10%</th>
<th>15%</th>
<th>20%</th>
<th>25%</th>
<th>30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power - (P_{mp}) (W)</td>
<td>484</td>
<td>506</td>
<td>528</td>
<td>550</td>
<td>572</td>
</tr>
<tr>
<td>Open Circuit Voltage - (V_{oc}) (V)</td>
<td>52.6</td>
<td>52.8</td>
<td>52.8</td>
<td>52.8</td>
<td>52.8</td>
</tr>
<tr>
<td>Short Circuit Current - (I_{sc}) (A)</td>
<td>11.62</td>
<td>12.13</td>
<td>12.66</td>
<td>13.18</td>
<td>13.71</td>
</tr>
<tr>
<td>Maximum Power Voltage - (V_{mp}) (V)</td>
<td>44.4</td>
<td>44.4</td>
<td>44.4</td>
<td>44.4</td>
<td>44.4</td>
</tr>
<tr>
<td>Maximum Power Current - (I_{mp}) (A)</td>
<td>10.92</td>
<td>11.40</td>
<td>11.90</td>
<td>12.39</td>
<td>12.89</td>
</tr>
</tbody>
</table>

Application Conditions

- **Maximum System Voltage**: 1500VDC
- **Maximum Series Fuse Rating**: 20A
- **Operating Temperature**: -40~+85 °C
- **Nominal Operating Cell Temperature**: 45±2°C
- **Bifacility**: 70%±5%
- **Mechanical Load**: Front side 5400Pa/ Back side 2400Pa

I-V Curve

Specifications are subject to change without further notification SRP-425-EN-2020V2.2 © Copyright 2020 Seraphim