HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE

RSM40-8-385MB-405MB

120 CELL
Mono PERC Module
385-405Wp
Power Output Range

1500VDC
Maximum System Voltage
21.1%
Maximum Efficiency

KEY SALIENT FEATURES

Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing

Industry leading lowest thermal co-efficient of power

Industry leading 15 years product warranty

Excellent low irradiance performance

Excellent PID resistance

Positive tight power tolerance

Dual stage 100% EL Inspection warranting defect-free product

Module Imp binning radically reduces string mismatch losses

Excellent wind load 2400Pa & snow load 5400Pa under certain installation method

Comprehensive product and system certification
  * IEC61215:2016; IEC61730-1/2:2016;
  * ISO 9001:2015 Quality Management System
  * ISO 14001:2015 Environmental Management System
  * ISO 45001:2018 Occupational Health and Safety Management System

LINEAR PERFORMANCE WARRANTY

15 year Product Warranty / 25 year Linear Power Warranty

* Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd.
ELECTRICAL DATA (STC)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>RSM40-8-395MB</th>
<th>RSM40-8-390MB</th>
<th>RSM40-8-395MB</th>
<th>RSM40-8-400MB</th>
<th>RSM40-8-405MB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Power in Watts-Pmax(Wp)</td>
<td>385</td>
<td>390</td>
<td>395</td>
<td>400</td>
<td>405</td>
</tr>
<tr>
<td>Open Circuit Voltage-Voc(V)</td>
<td>40.38</td>
<td>40.69</td>
<td>41.00</td>
<td>41.30</td>
<td>41.60</td>
</tr>
<tr>
<td>Short Circuit Current-Isc(A)</td>
<td>12.15</td>
<td>12.21</td>
<td>12.27</td>
<td>12.34</td>
<td>12.40</td>
</tr>
<tr>
<td>Maximum Power Voltage-Vmpp(V)</td>
<td>33.62</td>
<td>33.88</td>
<td>34.14</td>
<td>34.39</td>
<td>34.64</td>
</tr>
<tr>
<td>Maximum Power Current-Ippp(A)</td>
<td>11.46</td>
<td>11.52</td>
<td>11.58</td>
<td>11.64</td>
<td>11.70</td>
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<tr>
<td>Module Efficiency (%)</td>
<td>20.0</td>
<td>20.3</td>
<td>20.5</td>
<td>20.8</td>
<td>21.1</td>
</tr>
</tbody>
</table>

Note: STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

* Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA (NMOT)

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<tr>
<th>Model Number</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power-Pmax (Wp)</td>
<td>291.8</td>
<td>295.6</td>
<td>299.4</td>
<td>303.1</td>
<td>306.9</td>
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<tr>
<td>Open Circuit Voltage-Voc(V)</td>
<td>37.55</td>
<td>37.84</td>
<td>38.13</td>
<td>38.41</td>
<td>38.69</td>
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<tr>
<td>Short Circuit Current-Isc(A)</td>
<td>9.96</td>
<td>10.01</td>
<td>10.07</td>
<td>10.12</td>
<td>10.17</td>
</tr>
<tr>
<td>Maximum Power Voltage-Vmpp(V)</td>
<td>31.20</td>
<td>31.44</td>
<td>31.68</td>
<td>31.91</td>
<td>32.15</td>
</tr>
</tbody>
</table>

Note: NMOT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

- Solar cells: Monocrystalline
- Cell configuration: 120 cells (5x12+5x12)
- Module dimensions: 1754x1096x30 mm
- Weight: 21 kg
- Superstrate: High Transmission, Low Iron, Tempered ARC Glass
- Substrate: Back-sheet (Front side: Black, Back side: White)
- Frame: Anodized Aluminium Alloy type 6005-T6, Black
- J-Box: Potted, IP68, 1500VDC, 3 Schottky bypass diodes
- Cables: 4.0mm² (12AWG), Positive (+) 350mm, Negative (-) 350mm (Connector Included)
- Connector: Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

- Nominal Module Operating Temperature (NMOT): 44°C±2°C
- Temperature Coefficient of Voc: -0.25%/°C
- Temperature Coefficient of Isc: 0.04%/°C
- Temperature Coefficient of Pmax: -0.34%/°C
- Operational Temperature: -40°C~+85°C
- Maximum System Voltage: 1500 VDC
- Max Series Fuse Rating: 20 A
- Limiting Reverse Current: 20 A

PACKAGING CONFIGURATION

<table>
<thead>
<tr>
<th></th>
<th>40ft(HQ)</th>
<th>20ft</th>
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</thead>
<tbody>
<tr>
<td>Number of modules per container</td>
<td>936</td>
<td>216</td>
</tr>
<tr>
<td>Number of modules per pallet</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td>Number of pallets per container</td>
<td>26</td>
<td>6</td>
</tr>
<tr>
<td>Box gross weight[kg]</td>
<td>805</td>
<td>805</td>
</tr>
</tbody>
</table>

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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