Risen Energy is a leading, global Tier 1 manufacturer of high-performance solar photovoltaic products and provider of total business solutions for residential, commercial and utility-scale power generation. The company, founded in 1986, and publicly listed in 2010, compels value generation for its chosen global customers. Techno-commercial innovation, underpinned by consummate quality and support, encircle Risen Energy’s total Solar PV business solutions which are among the most powerful and cost-effective in the industry. With local market presence and strong financial bankability status, we are committed, and able, to building strategic, mutually beneficial collaborations with our partners, as together we capitalise on the rising value of green energy.

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**RSM40-8-390M-410M**

**120 CELL**  
Mono PERC Module  
**390-410Wp**  
Power Output Range

**1500VDC**  
Maximum System Voltage  
**21.3%**  
Maximum Efficiency

**KEY SALIENT FEATURES**

- **TIER 1** Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing
- Industry leading lowest thermal co-efficient of power
- **12 years** Industry leading 12 years product warranty
- Excellent low irradiance performance
- Excellent PID resistance
- Positive tight power tolerance
- **2 EL** 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
  - ISO 9001:2015  Quality Management System
  - ISO 14001:2015  Environmental Management System
  - ISO 45001:2018  Occupational Health and Safety Management System

**LINEAR PERFORMANCE WARRANTY**

- **12 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>RSM40-8-390M</th>
<th>RSM40-8-395M</th>
<th>RSM40-8-400M</th>
<th>RSM40-8-405M</th>
<th>RSM40-8-410M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Power Wp</td>
<td>390</td>
<td>395</td>
<td>400</td>
<td>405</td>
<td>410</td>
</tr>
<tr>
<td>Open Circuit Voc</td>
<td>40.69</td>
<td>41.00</td>
<td>41.30</td>
<td>41.60</td>
<td>41.90</td>
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<tr>
<td>Short Circuit Isc</td>
<td>12.21</td>
<td>12.27</td>
<td>12.34</td>
<td>12.40</td>
<td>12.47</td>
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<tr>
<td>Maximum Power Vmp</td>
<td>33.88</td>
<td>34.14</td>
<td>34.39</td>
<td>34.64</td>
<td>34.89</td>
</tr>
<tr>
<td>Maximum Power Imp</td>
<td>11.52</td>
<td>11.58</td>
<td>11.64</td>
<td>11.70</td>
<td>11.76</td>
</tr>
<tr>
<td>Module Efficiency (%)</td>
<td>20.3</td>
<td>20.5</td>
<td>20.8</td>
<td>21.1</td>
<td>21.3</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>RSM40-8-390M</th>
<th>RSM40-8-395M</th>
<th>RSM40-8-400M</th>
<th>RSM40-8-405M</th>
<th>RSM40-8-410M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power Wp</td>
<td>295.6</td>
<td>299.4</td>
<td>303.1</td>
<td>306.9</td>
<td>310.7</td>
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<tr>
<td>Open Circuit Voc</td>
<td>37.84</td>
<td>38.13</td>
<td>38.41</td>
<td>38.69</td>
<td>38.97</td>
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<td>Short Circuit Isc</td>
<td>10.01</td>
<td>10.07</td>
<td>10.12</td>
<td>10.17</td>
<td>10.22</td>
</tr>
<tr>
<td>Maximum Power Vmp</td>
<td>31.44</td>
<td>31.68</td>
<td>31.91</td>
<td>32.15</td>
<td>32.38</td>
</tr>
</tbody>
</table>

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: 1754x1096x30mm
- Weight: 21kg
- Superstrate: High Transmission, Low Iron, Tempered ARC Glass
- Substrate: White Back-sheet
- Frame: Anodized Aluminium Alloy type 6005-2T6, 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: 1500VDC
- Max Series Fuse Rating: 20A
- Limiting Reverse Current: 20A

PACKAGING CONFIGURATION

- 40ft(HQ): 936 modules per container, 36 modules per pallet, 26 pallets per container, Box gross weight 805 kg
- 20ft: 216 modules per container, 36 modules per pallet, 6 pallets per container, Box gross weight 805 kg

Our Partners: