RSM110-8-530M-550M

110 CELL
Mono PERC Module
530-550Wp
Power Output Range

1500VDC
Maximum System Voltage
21.0%
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 12 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
  - ISO 9001:2015 Quality Management System
  - ISO 14001:2015 Environmental Management System
  - ISO 45001:2018 Occupational Health and Safety Management System

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 1992, has been officially listed since 2010, and has been engaged in the solar photovoltaic industry for over 30 years. Risen Energy always adheres to the concept of customer first and continually improves product performance and manufacturing processes. Risen Energy's commitment to innovation and excellence has enabled it to become one of the leading Tier 1 manufacturers in the global photovoltaic market in terms of product performance, quality control, and after-sales service. Risen Energy's ultimate goal is to help all customers receive the greatest possible return on investment in solar photovoltaic power generation. Risen Energy is committed to serving its customers with quality products, excellent service, and a high level of commitment to the environment, and is committed to building long-term partnerships with its customers.

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THE POWER OF RISING VALUE
**ELECTRICAL DATA (STC)**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>RSM110-8-530M</th>
<th>RSM110-8-535M</th>
<th>RSM110-8-540M</th>
<th>RSM110-8-545M</th>
<th>RSM110-8-550M</th>
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<tbody>
<tr>
<td>Rated Power in Watts (Wp)</td>
<td>530</td>
<td>535</td>
<td>540</td>
<td>545</td>
<td>550</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>37.38</td>
<td>37.58</td>
<td>37.78</td>
<td>38.02</td>
<td>38.24</td>
</tr>
<tr>
<td>Short Circuit Current (Isc) (A)</td>
<td>18.08</td>
<td>18.13</td>
<td>18.18</td>
<td>18.23</td>
<td>18.28</td>
</tr>
<tr>
<td>Maximum Power Voltage (Vmp) (V)</td>
<td>31.06</td>
<td>31.26</td>
<td>31.46</td>
<td>31.66</td>
<td>31.86</td>
</tr>
<tr>
<td>Maximum Power Current (Imp) (A)</td>
<td>17.07</td>
<td>17.12</td>
<td>17.17</td>
<td>17.22</td>
<td>17.27</td>
</tr>
<tr>
<td>Module Efficiency (%) *</td>
<td>20.3</td>
<td>20.5</td>
<td>20.7</td>
<td>20.9</td>
<td>21.0</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>RSM110-8-530M</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power (Wp)</td>
<td>401.5</td>
<td>405.3</td>
<td>409.0</td>
<td>412.8</td>
<td>416.7</td>
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<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>34.76</td>
<td>34.95</td>
<td>35.14</td>
<td>35.36</td>
<td>35.56</td>
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<tr>
<td>Short Circuit Current (Isc) (A)</td>
<td>14.83</td>
<td>14.87</td>
<td>14.91</td>
<td>14.95</td>
<td>14.99</td>
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<tr>
<td>Maximum Power Voltage (Vmp) (V)</td>
<td>28.82</td>
<td>29.01</td>
<td>29.19</td>
<td>29.38</td>
<td>29.57</td>
</tr>
<tr>
<td>Maximum Power Current (Imp) (A)</td>
<td>13.93</td>
<td>13.97</td>
<td>14.01</td>
<td>14.05</td>
<td>14.09</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: 110 cells (5×11+5×11)
- Module dimensions: 2384×1096×35mm
- Weight: 29kg
- Superstrate: High Transmission, Low Iron, Tempered ARC Glass
- Substrate: White Back-sheet
- Frame: Anodized Aluminum Alloy type 6005-2T6, Silver Color
- J-Box: Potted, IP68, 1500VDC, 3 Schottky bypass diodes
- Cables: 4.0mm² (12AWG), Positive (+) 350mm, Negative (-) 350mm (Connector Included)
- Connector: Risen Twinsed 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 to 85°C
- Maximum System Voltage: 1500VDC
- Max Series Fuse Rating: 30A
- Limiting Reverse Current: 30A

**PACKAGING CONFIGURATION**

<table>
<thead>
<tr>
<th></th>
<th>40ft (HQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of modules per container</td>
<td>620</td>
</tr>
<tr>
<td>Number of modules per pallet</td>
<td>31</td>
</tr>
<tr>
<td>Number of pallets per container</td>
<td>20</td>
</tr>
<tr>
<td>Packaging box dimensions (LxWxH) in mm</td>
<td>2401×1115×1235</td>
</tr>
<tr>
<td>Box gross weight[kg]</td>
<td>950</td>
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</tbody>
</table>

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