RSM120-8-580M-600M

120 CELL
Mono PERC Module
Power Output Range

580-600Wp

1500VDC
Maximum System Voltage
Maximum Efficiency

21.2%

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 CO., LTD.
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, enrole 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 strategical, mutually beneficial collaborations with our partners, as together we capitalise on the rising value of green energy.

Tashan Industry Zone, Meilin, Ninghai 315609, Ningbo | PRC
Tel: +86-574-59953239  Fax: +86-574-59953399
E-mail: marketing@risenenergy.com Website: www.risenenergy.com

THE POWER OF RISING VALUE
ELECTRICAL DATA (STC)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>RSM120-8-590M</th>
<th>RSM120-8-595M</th>
<th>RSM120-8-590M</th>
<th>RSM120-8-595M</th>
<th>RSM120-8-590M</th>
<th>RSM120-8-595M</th>
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</thead>
<tbody>
<tr>
<td>Rated Power in Watts (Wpmax) (Wp)</td>
<td>580</td>
<td>585</td>
<td>590</td>
<td>595</td>
<td>600</td>
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<tr>
<td>Open Circuit Voltage (Voc) (V)</td>
<td>40.80</td>
<td>41.00</td>
<td>41.20</td>
<td>41.40</td>
<td>41.60</td>
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<tr>
<td>Short Circuit Current (Isc) (A)</td>
<td>18.11</td>
<td>18.16</td>
<td>18.21</td>
<td>18.26</td>
<td>18.32</td>
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<tr>
<td>Maximum Power Voltage (V)</td>
<td>33.94</td>
<td>34.12</td>
<td>34.32</td>
<td>34.50</td>
<td>34.70</td>
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<tr>
<td>Maximum Power Current (Imp) (A)</td>
<td>17.10</td>
<td>17.15</td>
<td>17.20</td>
<td>17.25</td>
<td>17.30</td>
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<tr>
<td>Module Efficiency (%)</td>
<td>20.5</td>
<td>20.7</td>
<td>20.8</td>
<td>21.0</td>
<td>21.2</td>
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</tbody>
</table>

*STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5 according to EN 60904-3,
* Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA (NMOT)

<table>
<thead>
<tr>
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<th>RSM120-8-595M</th>
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</thead>
<tbody>
<tr>
<td>Maximum Power (Wpmax) (Wp)</td>
<td>439.5</td>
<td>443.1</td>
<td>447.0</td>
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<tr>
<td>Open Circuit Voltage (V)</td>
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<td>38.13</td>
<td>38.32</td>
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<tr>
<td>Short Circuit Current (A)</td>
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<td>14.89</td>
<td>14.93</td>
<td>14.97</td>
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<tr>
<td>Maximum Power Voltage (V)</td>
<td>31.50</td>
<td>31.66</td>
<td>31.85</td>
<td>32.02</td>
<td>32.20</td>
<td></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 (6×10×6×10)
- Module dimensions: 2172×1303×35mm
- Weight: 31.5±0.5kg
- Superstrate: High Transmission, Low Iron, Tempered ARC Glass
- Substrate: White Back-sheet
- Frame: Anodized Aluminium Alloy type 6005-2T6, Silver Color
- J-Box: Potted, IP68, 1500VDC, 5 Schottky bypass diodes
- Cables: 4.0mm² (12AWG), Positive(+)350mm, Negative(-)350mm (Connector Included)
- Connector: Risen Twinseal PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

- Nominal Module Operating Temperature (NMOT): 44°C±2°C
- Temperature Coefficient of Voc: -0.26%/°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: 30A
- Limiting Reverse Current: 30A

PACKAGING CONFIGURATION

- Number of modules per container: 558
- Number of modules per pallet: 31
- Number of pallets per container: 18
- Packaging box dimensions (LxWxH) in mm: 1330x1120x2310
- Box gross weight (kg): 1017

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless otherwise specifically committed by manufacturer in contract document.

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