**Mission Solar Energy**

**High-Power, High Quality**
Mission Solar Energy is headquartered in San Antonio, TX with a module production facility on-site. We produce high-quality solar modules ensuring the highest power output and reliability to our customers. Our product line is well suited for residential, commercial, and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, proving excellent performance over the long-term.

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**MSE PERC 60**
High-Power PERC Rooftop Module

### CERTIFIED RELIABILITY
- Tested to UL1703 & IEC standards
- PID resistant

### SUPERIOR AESTHETICS
- All-black design coupled with outstanding power output
- Ideal for residential & commercial applications

### EXTREME WEATHER RESILIENCE
- 5631 Pa front and back load (117 psf) tested load to UL1703

### BAA COMPLIANT FOR GOVERNMENT PROJECTS
- Buy American Act
- American Recovery & Reinvestment Act

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**300-310W**
CLASS-LEADING POWER OUTPUT

**18.65%**
MAXIMUM EFFICIENCY

**-0~+3%**
POSITIVE POWER TOLERANCE

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**MISSION SOLAR ENERGY**

www.missionsolar.com | info@missionsolar.com

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**PRODUCT AND POWER WARRANTY**

![25-YEAR WARRANTY](image)

- **Mission Solar Energy Warranty**

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**CERTIFICATIONS**
- IEC 61215/ IEC 61730/ IEC 61701/ UL 1703/ Salt mist

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Please contact Mission Solar Energy if you have questions or concerns about certification of our products in your area.

1 Standard 12-year product warranty extendable to 25 years with registration
**ELECTRICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Module Type</th>
<th>MSE300SQ8T</th>
<th>MSE305SQ8T</th>
<th>MSE310SQ8T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Output Pmax</td>
<td>300</td>
<td>305</td>
<td>310</td>
</tr>
<tr>
<td>Module Efficiency</td>
<td>%</td>
<td>18.05</td>
<td>18.35</td>
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<tr>
<td>Tolerance</td>
<td>0° +3%</td>
<td>0° +3%</td>
<td>0° +3%</td>
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<tr>
<td>Short-Circuit Current Isc A</td>
<td>9.571</td>
<td>9.664</td>
<td>9.760</td>
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<tr>
<td>Open-Circuit Voltage Voc V</td>
<td>40.08</td>
<td>40.10</td>
<td>40.12</td>
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<tr>
<td>Rated Voltage Vmp V</td>
<td>33.12</td>
<td>33.14</td>
<td>33.17</td>
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<tr>
<td>Fuse Rating</td>
<td>15</td>
<td>20</td>
<td>20</td>
</tr>
</tbody>
</table>

**TEMPERATURE COEFFICIENTS**

- Normal Operating Cell Temperature (NOCT): 46.09°C (±2°C)
- Temperature Coefficient of Pmax: -0.377%/°C
- Temperature Coefficient of Voc: -0.280%/°C
- Temperature Coefficient of Isc: 0.039%/°C

**OPERATING CONDITIONS**

- Maximum System Voltage: 1,000Vdc
- Operating Temperature Range: -40°C (-40°F) to +85°C (185°F)
- Maximum Series Fuse Rating: 20A
- Fire Safety Classification: Type 1, Class C
- Front & Back Load (UL standard): 5631 Pa (117 psf) Tested to UL1703 standard
- Hail Safety Impact Velocity: 25mm at 23 m/s

**MECHANICAL DATA**

- Solar Cells: P-type mono-crystalline silicon (156.75mm)
- Cell Orientation: 60 cells (6x10), 5 busbar
- Module Dimension: 1664mm x 999mm x 40mm (65.53 in. x 39.33 in. x 1.58 in.)
- Weight: 18.2 kg (40.1 lb)
- Front Glass: 3.2mm (0.126 in.) tempered, low-iron, anti-reflective coating
- Frame: Anodized aluminum alloy
- Encapsulant: Ethylene vinyl acetate (EVA)
- J-Box: Protection class IP67 with 3 bypass-diodes
- Cables: PV wire, 1m (39.37 in.), 4mm² / 12 AWG
- Connector: MC4

**SHIPPING INFORMATION**

<table>
<thead>
<tr>
<th>Container FT</th>
<th>Pallets</th>
<th>Panels</th>
<th>310 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>53'</td>
<td>Double stack</td>
<td>36</td>
<td>936</td>
</tr>
<tr>
<td>40'</td>
<td>Double stack</td>
<td>28</td>
<td>728</td>
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**CERTIFICATIONS & TESTS**

- IEC: 61215 / 61730 / 61701 / Salt mist
- UL: UL 1703 listed

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Mission Solar Energy reserves the right to make specification changes without notice.

Mission Solar Energy | 8303 S. New Braunfels Ave., San Antonio, Texas 78235
info@missionsolar.com | www.missionsolar.com