The True American Brand
Mission Solar Energy is headquartered in San Antonio, TX., where we manufacture our modules. We produce American, high quality solar modules ensuring the highest in class power output and best in-class reliability to our customers. Our product line is tailored 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. Demand the best, demand Mission Solar Energy.

300-310W
CLASS LEADING POWER OUTPUT

18.65%
MAXIMUM EFFICIENCY

-0~+3%
POSITIVE POWER TOLERANCE

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

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.

www.missionsolar.com | info@missionsolar.com
**ELECTRICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Module Type</th>
<th>Pmax</th>
<th>Wp</th>
<th>Module Efficiency</th>
<th>Tolerance</th>
<th>Isc</th>
<th>V</th>
<th>A</th>
<th>Voc</th>
<th>V</th>
<th>Imp</th>
<th>A</th>
<th>Vmp</th>
<th>V</th>
<th>Fuse Rating</th>
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</thead>
<tbody>
<tr>
<td>MSE300SQ8T</td>
<td>300</td>
<td>300</td>
<td>18.05</td>
<td>0.0%+3%</td>
<td>9.571</td>
<td>40.08</td>
<td>9.202</td>
<td>33.12</td>
<td>15</td>
<td>20</td>
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**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**

- Container FT: 53’ Double stack: 36 panels, 290.16 kW
  40’ Double stack: 28 panels, 225.68 kW
- Panels: 26
- Weight: 1,105lbs
- Height: 45.50”
- Width: 45.50”
- Length: 67.00”

**CERTIFICATIONS & TESTS**

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

**MSE305SQ8T: 305WP, 60 CELL SOLAR MODULE**

**CURRENT - VOLTAGE CURVE**

Current-voltage characteristics with dependence on irradiance and module temperature

**MISSION SOLAR ENERGY**

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

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

**BASIC DESIGN (UNITS: mm)**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Pallets</th>
<th>Panels</th>
<th>Weight</th>
<th>Height</th>
<th>Width</th>
<th>Length</th>
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<tbody>
<tr>
<td>Front View</td>
<td>26</td>
<td>936</td>
<td>1,105lbs</td>
<td>45.50”</td>
<td>45.50”</td>
<td>67.00”</td>
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<tr>
<td>Back View</td>
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</table>

**NORMAL OPERATING CELL TEMPERATURE (NOCT)**

Cells Temp. = 25°C

<table>
<thead>
<tr>
<th>Irradiance (W/m²)</th>
<th>Current (A)</th>
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<td>1000</td>
<td>244.1</td>
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<tr>
<td>800</td>
<td>244.1</td>
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<td>600</td>
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<tr>
<td>400</td>
<td>120.5</td>
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<tr>
<td>200</td>
<td>58.8</td>
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