MSE PERC 60
High Power PERC Rooftop Module

- Class Leading Output: 305W power
- Advanced Technology: PERC and 4 busbars drive >18% module efficiency
- Certified Reliability: 3X IEC, salt mist, ammonia
- 5600 Pa snow load 175 mph wind rating New!
- Buy American Act

Proudly assembled in the USA
Mission Solar Energy is headquartered in San Antonio, TX with module facilities onsite. Our hardworking team calls Texas home and is devoted to producing high quality solar products and services. Our supply chain includes local and domestic vendors increasing our impact to the U.S. economy.

CERTIFICATIONS
IEC 61215/ IEC 61730/ IEC 61701  UL 1703

Outstanding performance with PERC
Passivated Emitter Rear Contact (PERC) technology provides excellent power output through advanced cell structure.

Best in class quality
Mission Solar Energy production lines are fully automated and include multiple quality checks throughout the production process.

Proven reliability and bankability
Mission Solar Energy panels have been tested by independent testing centers to meet and exceed IEC standards. Our panels are deployed in projects across North America.

Assembled in the USA

25-YEAR LINEAR WARRANTY

*As there are different certification requirements in different markets, please contact your local Mission Solar Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.
ELECTRICAL SPECIFICATIONS

Electrical parameters at Standard Test Condition (STC)

<table>
<thead>
<tr>
<th>Module Type</th>
<th>MSE295SQ5K</th>
<th>MSE300SQ5K</th>
<th>MSE305SQ5K</th>
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<tbody>
<tr>
<td>Power Output</td>
<td>Pmax</td>
<td>Wp</td>
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<tr>
<td>Module Efficiency</td>
<td>%</td>
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<td>18.06</td>
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<td>Tolerance</td>
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<td>Short-Circuit Current</td>
<td>Isc</td>
<td>A</td>
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<td>Voc</td>
<td>V</td>
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<tr>
<td>Rated Current</td>
<td>Imp</td>
<td>A</td>
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<tr>
<td>Rated Voltage</td>
<td>Vmp</td>
<td>V</td>
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</table>

STC: Irradiance 1000 W/m², Cell temperature of 25°C, AM 1.5

TEMPERATURE COEFFICIENTS

- Normal Operating Cell Temperature (NOCT) 44°C (±2°C)
- Temperature Coefficient of Pmax -0.427%/°C
- Temperature Coefficient of Voc -0.318%/°C
- Temperature Coefficient of Isc 0.042%/°C

OPERATING CONDITIONS

| Maximum System Voltage | 1,000VDC |
| Operating Temperature Range | -40°C (-40°F) to +90°C (194°F) |
| Maximum Series Fuse Rating | 15A |
| Fire Safety Classification | Type 1, Class C |
| Front & Back Load (UL standard) | 5600 Pa (117 psf) | New! |
| 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), 4 busbar
- Module dimension: 1664mm x 999mm x 40mm (65.51 in. x 39.33 in. x 1.57 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 or compatible

BASIC DESIGN (UNITS: mm)