**MSE PERC 72**
High Power PERC Module

- **Class Leading Output:** Up to 365W power
- **Advanced Technology:** PERC and 4 busbars drive >18% module efficiency
- **Reduced System Costs:** Robust design, 1000V and simple installation
- **Certified Reliability:** 3X IEC, salt mist, ammonia
- **5600 Pa snow load** New!
- **175 mph wind rating**

**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 including 2X EL Testing, 100% Visual inspection, and positive binning.

**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.

**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>MSE355SQ6S</th>
<th>MSE360SQ6S</th>
<th>MSE365SQ6S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Output Pmax Wp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Module Efficiency</td>
<td>18.05%</td>
<td>18.36%</td>
<td>18.46%</td>
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<tr>
<td>Tolerance</td>
<td>0%±3%</td>
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<td></td>
</tr>
<tr>
<td>Short-Circuit Current Isc A</td>
<td>9.76</td>
<td>9.79</td>
<td>9.81</td>
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<tr>
<td>Open Circuit Voltage Voc V</td>
<td>47.68</td>
<td>48.08</td>
<td>48.12</td>
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<tr>
<td>Rated Current Imp A</td>
<td>9.19</td>
<td>9.28</td>
<td>9.32</td>
</tr>
<tr>
<td>Rated Voltage Vmp V</td>
<td>38.98</td>
<td>39.28</td>
<td>39.32</td>
</tr>
</tbody>
</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 -0.377%/°C
Temperature Coefficient of Voc -0.280%/°C
Temperature Coefficient of Isc 0.046%/°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 72 cells (6x12), 4 busbar
Module dimension 1987mm x 999mm x 40mm (78.23 in. x 39.33 in. x 1.57 in.)
Weight 21.6 kg (47.6 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, 1.2m (47.24 in.), 4mm²/12 AWG
Connector MC4 or compatible

MSE360SQ6S: 360WP, 72CELL SOLAR MODULE
CURRENT-VOLTAGE CURVE

Stages of irradiance:
- Incident Irradiance = 1,000 W/m²
- Incident Irradiance = 800 W/m²
- Incident Irradiance = 600 W/m²
- Incident Irradiance = 400 W/m²
- Incident Irradiance = 200 W/m²

Current-voltage characteristics with dependence on irradiance and module temperature

BASIC DESIGN (UNITS: mm)

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

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