Silevo’s proprietary hybrid tunneling junction cell technology combines **High Efficiency**, **Exceptional Energy Harvest**, and **Manufacturing Excellence** to deliver maximum return for your solar investment.

**18.3% = Superior Efficiency**
With efficiencies up to 18.3%, Silevo’s Triex solar modules are amongst the highest in the industry. Higher efficiency delivers more power in less space.

**-0.27%/°C + ARC = More Energy Output**
Triex solar modules can generate up to 12% more energy than conventional solar modules due to their low temperature coefficient which aids performance in warm weather, and anti-reflective glass which boosts performance in low-light conditions.

**6 Steps | Cu = Manufacturing Excellence**
Silevo’s Triex technology incorporates premium materials with 6 core automated manufacturing steps to deliver value and performance. Triex modules are virtually LID & PID-free.

Silevo’s Triex U-Series solar modules incorporate 96 individual hybrid tunneling-junction solar cells which deliver high performance and reliability. Designed to meet the demanding requirements of commercial and utility-scale solar projects, U-Series modules can also be used in high performance residential applications. Available with either silver or black frame option.

**TRIEX U305 WATT 18.3%**

- **25 year** linear power warranty &
- **10 year** product warranty

ISO 9001 & 14001 certified production facility.
IEC 61215, IEC 61730 & UL 1703 certified.
Salt Mist test severity Level 1 certified.

**DAILY POWER ADVANTAGE**

- **12% Advantage**

PVSyst Simulation Phoenix, AZ
16 July TMY3 Data
### Packaging Data
- Modules per Pallet: 25
- Modules per 40' GP Container: 350
- Modules per 40' HQ Container: 700

### Mechanical Data
- Solar Cells: 96 Triex 125mm x 125mm cells
- Dimensions: 1586mm x 1056mm x 40mm
- Weight: 19 kgs
- Front Glass: ARC 3.2mm High Transmission Tempered
- Front Load Test (Snow): 5400 Pa
- Rear Static Load Test (Wind): 2400 Pa
- Junction Box: IP65 rated with 4 bypass diodes
- Output Cables: 1000mm / MC4 Connectors
- Frame: Black Aluminum (Silver option)

### Electrical Data (at STC)
- Note: STC: Air Mass 1.5, Irradiance 1000W/m², cell temperature 25°C
- Maximum Power (Pmax) [W]: 290, 295, 300, 305
- Max Power Voltage (Vmp) [V]: 56.2, 56.6, 57.0, 57.5
- Max Power Current (Imp) [A]: 5.19, 5.23, 5.27, 5.32
- Open Circuit Voltage (Voc) [V]: 68.9, 69.2, 69.5, 69.8
- Short Circuit Current (Isc) [A]: 5.59, 5.62, 5.65, 5.68
- Output Power Tolerance [Wp]: 0/+5, 0/+5, 0/+5, 0/+5
- Total Area Module Efficiency: 17.4%, 17.7%, 17.9%, 18.3%

### Electrical Data (at NOTC)
- Note: NOTC: Air Mass 1.5, Irradiance 800W/m², Air temperature 20°C, Wind speed 1m/ss
- Maximum Power (Pmax) [W]: 213.1, 216.3, 219.5, 223.6
- Max Power Voltage (Vmp) [V]: 52.0, 52.4, 52.7, 53.2
- Max Power Current (Imp) [A]: 4.10, 4.13, 4.16, 4.20
- Open Circuit Voltage (Voc) [V]: 64.0, 64.3, 64.5, 64.8
- Short Circuit Current (Isc) [A]: 4.47, 4.50, 4.52, 4.55

### Electrical Data (at Low Irradiance)
- Note: Low irradiance: Air Mass 1.5, Irradiance 200W/m², cell temperature 25°C
- Maximum Power (Pmax) [W]: 56.6, 57.2, 57.8, 58.3
- Max Power Voltage (Vmp) [V]: 53.4, 53.7, 53.9, 54.1
- Max Power Current (Imp) [A]: 1.06, 1.07, 1.07, 1.08
- Open Circuit Voltage (Voc) [V]: 64.8, 65.0, 65.3, 65.6
- Short Circuit Current (Isc) [A]: 1.14, 1.15, 1.15, 1.16

### I-V Curve U305

<table>
<thead>
<tr>
<th>Current (A)</th>
<th>Voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0</td>
<td>1000 W/m² @ 45°C</td>
</tr>
<tr>
<td>5.0</td>
<td>1000 W/m²</td>
</tr>
<tr>
<td>4.0</td>
<td>800 W/m²</td>
</tr>
<tr>
<td>3.0</td>
<td>600 W/m²</td>
</tr>
<tr>
<td>2.0</td>
<td>400 W/m²</td>
</tr>
<tr>
<td>1.0</td>
<td>200 W/m²</td>
</tr>
</tbody>
</table>

### Certifications
- Fire Safety Classification: Class C
- Certifications: UL 1703, CEC, IEC61215, IEC61730

### Warranty
- Warranty: 10 Year Limited Product Warranty
- Performance Guarantee: 25 Year linear (please refer to warranty for details)

### Temperature Ratings
- Temperature (NOCT) [°C]: 46 +/- 2
- Temperature Coefficient Pmax [%/°C]: -0.27
- Temperature Coefficient Voc [%/°C]: -0.262
- Temperature Coefficient Isc [%/°C]: 0.04

### Maximum Ratings
- Maximum System Voltage [V]: 1000V DC (IEC) / 600V DC (UL)
- Maximum Fuse Rating: 12A
- Temperature: Negative 40°C to Positive 85°C

### Dimensions

![Dimensions Diagram]