Viasolis OPTIMUS 250-270 framed
Glass/Glass 60 cell module

Glass/Glass modules – advanced choice for those who look for durability, safety, efficiency.

**KEY FEATURES**

- **50+ year lifetime.** Edge-sealant protection assures superior atmospheric and humidity resistance.
- **Back glass** instead of plastic assures durability and robust protection against UV, moisture, ammonia and salt corrosion.
- **Higher heat dispensing.** Glass is better thermal conductor than plastic back-sheet in standard modules ensuring higher efficiency in hot climate.
- **100% PID free cells.** Potential induced degradation is eliminated at cell level using PVB lamination foil.
- **Wider light spectrum absorbed.** PVB lamination foil utilises light spectrum starting from 280nm.

**LAMINATION FOIL:**
- Black
- White
- Transparent

**Why Glass/Glass technology?**
Glass/Glass (G/G) modules are produced by laminating PV cells between two glass sheets, instead of standard glass and plastic.

Compared with standard modules, the same glass material resistance and heat dispersal is more durable in fluctuating temperatures and hot and humid climate zones, ensuring a 50-year lifespan.

Unlike other G/G modules on the market, ViaSolis uses innovative edge-sealant technology to protect PV cells from humidity.

**Why Solar Edge?**
- Up to 25% more energy
- Mitigates partial shading and manufacturing mismatch-loss
- Module level monitoring
- Module-level voltage shutdown for installer and firefighter safety

**RELIABLE QUALITY**
- Positive power tolerance 0/+5 W
- 100% double quality control ensures modules are defect free
- Fully automated production lines
- Designed and manufactured in EU

**MANUFACTURER WARRANTY**
- 50-year laminates warranty
- 35-year product warranty
- 35-year linear performance guarantee

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Glass/Glass 60 cell module

**MECHANICAL PARAMETERS**
- Cell (mm): 156x156
- Weight (kg): 23.8
- Dimensions (LxWxH) (mm): 1682 x 1000 x 41
- Cable Cross Section Size (mm²) / Holes: 6 / M4 compatible
- No. of Cells in the Module: 60 (10x6)
- Junction Box: SolarEdge / Box
- Front / Back Glass (mm): 2.1 / 2.1
- Packaging Configuration: 16 per pallet

**WORKING CONDITIONS**
- Maximum System Voltage: DC 1000V (EU)
- Operating Temperature: -40 °C—+85°C
- Maximum Current: 15 A
- Maximum Static Load, Front (wind / snow): 10000Pa / 10000Pa
- NDCT: 43.6°C
- Safety Class: I

**ELECTRICAL PARAMETERS**

<table>
<thead>
<tr>
<th>Type</th>
<th>ViaSolis OPTIMUS 60 P 250 framed</th>
<th>ViaSolis OPTIMUS 60 P 250 framed</th>
<th>ViaSolis OPTIMUS 60 P 200 framed</th>
<th>ViaSolis OPTIMUS 60 P 200 framed</th>
<th>ViaSolis OPTIMUS 60 M 200 framed</th>
<th>ViaSolis OPTIMUS 60 M 200 framed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Maximum Power at STC (Wp)</td>
<td>250</td>
<td>255</td>
<td>260</td>
<td>265</td>
<td>270</td>
<td>270</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>37.58</td>
<td>37.62</td>
<td>37.41</td>
<td>37.65</td>
<td>38.43</td>
<td>38.47</td>
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<tr>
<td>Maximum Power Voltage (Imp/V)</td>
<td>30.13</td>
<td>30.15</td>
<td>30.17</td>
<td>30.78</td>
<td>30.82</td>
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<tr>
<td>Short Circuit Current (Isc/A)</td>
<td>8.88</td>
<td>9.25</td>
<td>9.23</td>
<td>9.12</td>
<td>9.20</td>
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<tr>
<td>Maximum Power Current (Imp/A)</td>
<td>8.30</td>
<td>8.46</td>
<td>8.62</td>
<td>8.61</td>
<td>8.77</td>
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<tr>
<td>Module Efficiency (%)</td>
<td>15.08</td>
<td>15.38</td>
<td>15.68</td>
<td>13.44</td>
<td>13.69</td>
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<tr>
<td>Power Tolerance</td>
<td>0/+5 W</td>
<td>0/+5 W</td>
<td>0/+5 W</td>
<td>0/+5 W</td>
<td>0/+5 W</td>
<td></td>
</tr>
<tr>
<td>Temperature Coefficient of Voc (αoc)</td>
<td>-0.05%/°C</td>
<td>-0.05%/°C</td>
<td>-0.05%/°C</td>
<td>-0.06%/°C</td>
<td>+0.04%/°C</td>
<td>+0.045%/°C</td>
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<tr>
<td>Temperature Coefficient of Voc (αVoc)</td>
<td>-0.3%/°C</td>
<td>-0.3%/°C</td>
<td>-0.3%/°C</td>
<td>-0.3%/°C</td>
<td>-0.3%/°C</td>
<td>-0.3%/°C</td>
</tr>
<tr>
<td>Temperature Coefficient of Impp (αImp)</td>
<td>-0.42%/°C</td>
<td>-0.42%/°C</td>
<td>-0.42%/°C</td>
<td>-0.38%/°C</td>
<td>-0.29%/°C</td>
<td></td>
</tr>
</tbody>
</table>

STC: Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

**I-V CURVE**

- Operating Output Voltage when connected to SolarEdge Inverter: 5-60 Vdc
- Operating Output Voltage when connected to Non-SolarEdge Inverter: 6.2 V of module: 10 Vdc
- Maximum Output Current when connected to SolarEdge Inverter: 15 Adc
- Maximum Output Current when connected to Non-SolarEdge Inverter: 10 Adc
- Output in Standby mode with SolarEdge Inverter or with SMI and Non-SolarEdge Inverter (when disconnected from Inverter or inverter off): 1 Vdc

**String Lengths (computed automatically by SolarEdge Site Designer)**

<table>
<thead>
<tr>
<th>Module Power</th>
<th>250</th>
<th>255</th>
<th>260</th>
<th>265</th>
<th>270</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINIMUM string size with SolarEdge inverter</td>
<td>30h</td>
<td>16</td>
<td>19</td>
<td>18</td>
<td>17</td>
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<tr>
<td>MAXIMUM string size with SolarEdge inverter</td>
<td>30h</td>
<td>21</td>
<td>20</td>
<td>19</td>
<td>18</td>
</tr>
</tbody>
</table>

**String size with Non-SolarEdge inverter: According to Inverter design rules**

**Junction Box Standard Compliance**
- Fire Safety: VDE-AR-E 2130-712:2013-09
- PV Junction Box Safety: IEC62109-1 (class II safety, TUV-SUD), UL1741 (TUV-Rheinland & CSA)
- PV Junction Box: En50548 (TUV-SUD), UL1777 (TUV-Rheinland & CSA)

Specifications subject to technical changes and tests. Manufacturer reserves the right of final interpretation.