It Pays To Be Flexible

Building on 25 years of solar experience, the new, enhanced version of our proven PVL delivers greater efficiency, packing density and ease of installation, resulting in a lower cost of electricity than ever before.

Key Attributes
- Lightweight and flexible
- Roof-friendly solution requiring no penetrations
- BIPV & BAPV
- Superior performance at high temperatures
- Excellent performance even when partially shaded
- Built-in strain relief reduces installation labor and improves reliability
- Polarized, latching connectors
- Lead-free RoHS compliant design

Performance Characteristics
Rated Power (P_{max}): 144, 136 or 68 Wp  
Tolerance of P_{max}: ±5 %

Mechanical Characteristics
- Junction Box: IP66 terminal housing with integrated strain relief
- Connectors: Polarized, weatherproof latching connectors with 4 mm² (12 AWG) halogen-free cables
- Bypass Diodes: Connected across every solar cell
- Front Surface: Durable ETFE high light-transmissive polymer
- Adhesive: Peel and stick pressure sensitive adhesive (PSA)
- Cell Type: Multi-junction amorphous silicon solar cells 356 mm x 239 mm (14” x 9.4”)

Certifications and Warranty
- UL 1703 Listed by Underwriters Laboratories® for electrical and fire safety (Class A Max. Slope 2/12, Class B Max. Slope 3/12, Class C Unlimited Slope fire ratings) for use in systems up to 600 VDC
- IEC 61646 and IEC 61730 certified by TÜV Rheinland for use in Class A PV systems up to 1000 VDC
- CEC Listing

5-Year Limited Product Warranty
Limited Power Output Warranty: 92% at 10 years, 84% at 20 years, 80% at 25 years (of minimum power)

Application Criteria*
- Suitable for installation on clean, dry approved substrates (refer to uni-solar.com for full details) at ambient temperatures above 10ºC

Roof Requirements
- Maximum slope of 60º
- Install in areas free of water pooling

Global Contact Information

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**Electrical Performance at Standard Test Conditions (STC) (1000 W/m², AM 1.5, 25°C Cell Temperature)**

<table>
<thead>
<tr>
<th></th>
<th>ePVL-144</th>
<th>ePVL-136</th>
<th>ePVL-68</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power (P_max):</td>
<td>144 W</td>
<td>136 W</td>
<td>68 W</td>
</tr>
<tr>
<td>Voltage at Pmax (V_mpp):</td>
<td>33.0 V</td>
<td>33.0 V</td>
<td>16.5 V</td>
</tr>
<tr>
<td>Current at Pmax (I_mpp):</td>
<td>4.4 A</td>
<td>4.1 A</td>
<td>4.1 A</td>
</tr>
<tr>
<td>Short-circuit Current (I_sc):</td>
<td>5.3 A</td>
<td>5.1 A</td>
<td>5.1 A</td>
</tr>
<tr>
<td>Open-circuit Voltage (V_oc):</td>
<td>46.2 V</td>
<td>46.2 V</td>
<td>23.1 V</td>
</tr>
<tr>
<td>Maximum Series Fuse Rating:</td>
<td>10 A</td>
<td>10 A</td>
<td>10 A</td>
</tr>
<tr>
<td>Limiting Reverse Current:</td>
<td>10 A</td>
<td>10 A</td>
<td>10 A</td>
</tr>
</tbody>
</table>

**Temperature Coefficients (TC)**

- TC of I_sc: 0.0010/K (0.10%/°C)
- TC of V_oc: -0.0038/K (-0.38%/°C)
- TC of P_max: -0.0021/K (-0.21%/°C)
- TC of I_mpp: 0.0010/K (0.10%/°C)
- TC of V_mpp: -0.0031/K (-0.31%/°C)

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Model</th>
<th>ePVL-136</th>
<th>ePVL-144</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length:</td>
<td>5412 mm</td>
<td>2771 mm</td>
</tr>
<tr>
<td>Width:</td>
<td>368 mm</td>
<td>368 mm</td>
</tr>
<tr>
<td>Laminate Thickness:</td>
<td>3 mm (.12&quot;)</td>
<td>3 mm (.12&quot;)</td>
</tr>
<tr>
<td>Overall Thickness:</td>
<td>21 mm (.83&quot;)</td>
<td>21 mm (.83&quot;)</td>
</tr>
<tr>
<td>Weight:</td>
<td>7.4 kg (16.2 lbs)</td>
<td>3.9 kg (8.5 lbs)</td>
</tr>
<tr>
<td>Number of Cells:</td>
<td>22 (n)</td>
<td>11 (n)</td>
</tr>
</tbody>
</table>

**IV Curves at Various Levels of Irradiance at Air Mass 1.5 and 25°C Cell Temperature**

- **144 Watt**
- **136 Watt**
- **68 Watt**

To learn more about PowerBond and other UNI-SOLAR products, please call 1.800.528.0617 or visit uni-solar.com.