Lightweight Solar Modules for Landfill Covers

The MiaSolé FLEX−02W Series—the world’s most powerful lightweight, flexible thin−film solar modules—provides power generation for landfill covers

Solar Landfill Cover Benefits:

- Landfills are located on large, open areas with no commercial or agriculture use or value—perfect for solar installations.
- Closing and sealing landfills with a synthetic TPO membrane cover reduces costs compared to conventional standard subtitle D methods. Flexible modules can be bonded directly to the membrane cover.
- Membrane covers and flexible modules are a perfect combination for sloped landfill sites where conventional solar arrays cannot be installed due to slope and live−load limitations.
- Large power-generation area and fewer shading issues when compared to rooftop solar.
- Excellent complement to landfill gas technology to increase overall energy output.

MiaSolé FLEX Benefits:

- Easy to install—simply peel−and−stick module onto the membrane used to contain, cover and close the landfill
- Non−penetration installation protects the environment
- Flexible—conforms to the contours of the landfill and accommodates differential settlement
- Resistant to theft and vandalism
- Wind− and seismic−resistant
- Shatter−proof—won’t break if struck by debris
TECHNICAL INFORMATION

The MiaSolé FLEX Series is a flexible polymer encapsulated thin–film solar module based on MiaSolé advanced CIGS (Copper Indium Gallium Selenide) technology. The FLEX series modules are the solar industry’s highest efficiency flexible CIGS thin–film solar modules on the market today.

The MiaSolé flexible, thin–film cell enables a number of product applications, including solar landfill covers, that standard silicon panels cannot offer.

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<tr>
<th>Details</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>Product</td>
<td>FLEX-02W Series</td>
</tr>
<tr>
<td>Length</td>
<td>2598 mm (102.3 in)</td>
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<tr>
<td>Width</td>
<td>1000 mm (39.4 in)</td>
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<tr>
<td>Module Thickness</td>
<td>2.5 mm (0.1 in)</td>
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<tr>
<td>Weight</td>
<td>6.2 kg (13.7 lbs) with adhesive</td>
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<tr>
<td>Weight/Area</td>
<td>2.4 kg/m² (0.5 lb/ft²) with adhesive</td>
</tr>
<tr>
<td>Junction Box Type</td>
<td>IP68</td>
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<tr>
<td>Cable Connections</td>
<td>MC4 Compatible</td>
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<tr>
<td>Cell Type</td>
<td>Copper Indium Gallium Selenide (CIGS)</td>
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<tr>
<td>Bend Radius</td>
<td>508 mm (20 in) minimum</td>
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<tr>
<td>Warranty*</td>
<td>5 year workmanship; 10/25 year power output</td>
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<td>Certifications</td>
<td>UL 1703, IEC 61646 and IEC 61730, UL Fire Class A over TPO—slope up to 2.5:12</td>
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<tr>
<td>Packaging Info</td>
<td>15 modules per crate, 75 modules per pallet, 300 modules per 20’ ISO container, 1200 modules per 40’ ISO container</td>
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*Please see full warranty for details.

The MiaSolé flexible, thin–film cell enables a number of product applications, including solar landfill covers, that standard silicon panels cannot offer.

- Flexible
- No racking required
- Non–penetrating
- Resistant to theft and vandalism
- Designed for high wind and seismic zones

FLEX–02W Series

- FLEX–02 340W 340 WATTS
- FLEX–02 350W 350 WATTS
- FLEX–02 360W 360 WATTS
- FLEX–02 370W 370 WATTS
- FLEX–02 380W 380 WATTS

Contact us
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