Lightweight Solar Modules for New and Existing Carports

The MiaSolé FLEX–02W Series—the world’s most powerful lightweight, flexible thin–film solar modules—is a perfect fit for today’s carports.

Solar Carport Benefits:
- Provide highly desirable shade for parked cars, providing increased owner comfort and a lower carbon footprint when the car is started and cooled
- Sun, rain, snow and hail protection
- Reduced parking lot temperatures and a lower heat–island effect
- Large power–generation area when compared to traditional roofs
- Fewer engineering and inspection challenges than traditional rooftop solar installations
- Fewer shading issues than traditional roofs

MiaSolé FLEX for Carport Benefits:
- Lightweight: less than 2.4 kg/m² (<0.5 lb/ft²)—Ideal for today’s cost–optimized carport structures
- Easy to install—simply peel–and–stick
- Bonds directly to 7.2” corrugated metal panels and standing–seam metal roofing
- Resistant to wind and seismic events; won’t detach or shatter if struck by debris
- Blends into the carport with minimal protrusion above the carport structure
- Theft and vandalism resistant

MiaSolé
A Hanergy Company

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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.

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<thead>
<tr>
<th>Details</th>
<th>Specifications</th>
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</thead>
<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>
</tr>
<tr>
<td>Cell Type</td>
<td>Copper Indium Gallium Selenide (CIGS)</td>
</tr>
<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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<tr>
<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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</table>

*Please see full warranty for details.

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

- Low weight
- No rails or custom purlins
- No module grounding
- Non-penetrating
- Building-integrated PV module
- Designed for high wind and seismic zones

Contact us
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