

MIASOLE FLEX MODULE BENEFITS

MiaSolé FLEX-02 Series Modules—the world's most powerful lightweight, flexible thin-film CIGS solar modules—provide customers significant benefits

MiaSolé FLEX-02 Benefits:

- **Lightweight:** Less than 2.4 kg/m² (<0.5 lb/ft²). Because FLEX-02 modules are so much lighter than rigid silicon panels mounted using heavy racks or rails, they are the best solution for building structures with low dead load and environmental load limitations—such as snow—as well as other structures such as trucks and autos.
- **Powerful:** MiaSolé FLEX modules are the highest efficiency flexible thin-film CIGS modules in production today, with aperture efficiencies up to 17%, for the most power generation per square meter.
- **Easy to Install:** MiaSolé FLEX modules use peel-and-stick application. This eliminates penetrations into the structure, reducing the chance of leaks; allows for installation on surfaces such as autos, trucks and RVs where racks would not be feasible; and lowers the balance-of-systems (BOS) costs and complexity when mounting on rooftops.
- **Flexible:** MiaSolé FLEX modules conform to curved surfaces, enabling solar power generation on surfaces not suited to traditional rigid silicon panels.
- **Resistant to Natural Disasters:** MiaSolé modules are thin (2.5mm) and adhere directly to surfaces, providing excellent wind and seismic resistance. The modules are also shatterproof, and won't break if struck by debris.



CIGS THIN-FILM EFFICIENCY: THEN VS. NOW

The limiting factors with flexible solar modules have traditionally been tied to cost and overall efficiency. In the past, thin-film modules were expensive and converted a fraction of the energy from the sun into electricity, with efficiency rates between 8–10%. However, steady technological advances by MiaSolé have resulted in CIGS thin-film modules with a production efficiency of >16%, comparable to rigid silicon modules. Now flexible solar modules are an increasingly strong alternative to rigid solar modules. Today's flexible lightweight modules produce more watts per KG from solar films that are a fraction the thickness of polysilicon.



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.

FLEX-02W Specifications

Length	2598 mm (102.3 in)
Width	1000 mm (39.4 in)
Module Thickness	2.5 mm (0.1 in)
Weight	6.2 kg (13.7 lbs) with adhesive
Weight/Area	2.4 kg/m ² (0.5 lb/ft ²) with adhesive
Junction Box Type	IP68
Cable Connections	MC4 Compatible
Cell Type	Copper Indium Gallium Selenide (CIGS)
Warranty*	5 year workmanship; 10/25 year power output
Certifications	UL 1703, IEC 61646 and IEC 61730, UL Fire Class A over TPO – slope up to 2.5:12

FLEX-02N Specifications

Length	2598 mm (102.3 in)
Width	370 mm (14.6 in)
Module Thickness	2.5 mm (0.1 in)
Weight	2.7 kg. (5.9 lb) with adhesive
Weight/Area	2.9 kg/m ² (0.6 lb/ft ²) with adhesive
Junction Box Type	IP68
Cable Connections	MC4 Compatible
Cell Type	Copper Indium Gallium Diselenide (CIGS)
Warranty*	5 year workmanship, 10/25 year power output
Certifications	UL 1703, IEC 61646 and IEC 61730

*Please see full warranty for details.



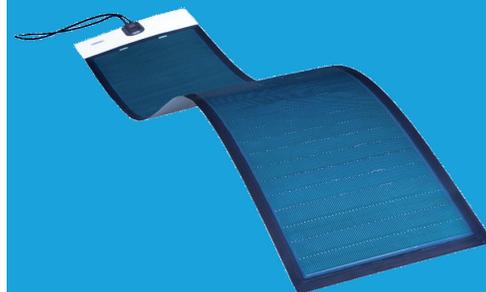
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HIGH
EFFICIENCY
LIGHTWEIGHT
FORM
IDEAL FOR A
WIDE VARIETY
OF USES



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



FLEX-02N Series

FLEX-02 110N	110 WATTS
FLEX-02 115N	115 WATTS
FLEX-02 120N	120 WATTS
FLEX-02 125N	125 WATTS
FLEX-02 130N	130 WATTS

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MiaSolé Approved for Public Release.

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