

# Lightweight Solar Modules for Solar Reservoir Covers

The MiaSolé FLEX-W Series—the world's most powerful lightweight, flexible thin-film solar modules—provides power generation for reservoirs

## Solar Reservoir Cover Benefits:

- Generate power using the water surface area without consuming valuable land area for a solar array
- Reduced evaporation due to the solar covering—a 3-acre storage pond covered with solar panels could save over four million gallons of water each year.
- Less water contamination and algae growth, minimizing water treatment and associated labor costs
- Large power-generation area when compared to rooftop solar
- Modules are naturally cooled by the water for better performance
- Fewer shading issues than rooftop solar
- For reservoir-based hydro power plants, solar power can supplement hydro-based generation during the day when sunlight is available

## MiaSolé FLEX Benefits:

- Lightweight: less than 2.0 kg/m<sup>2</sup> (<0.4 lb/ft<sup>2</sup>)—Ideal for floating structures
- Easy to install—simply peel-and-stick onto reservoir membrane
- Resistant to wind
- Shatter-proof—won't break if struck by debris



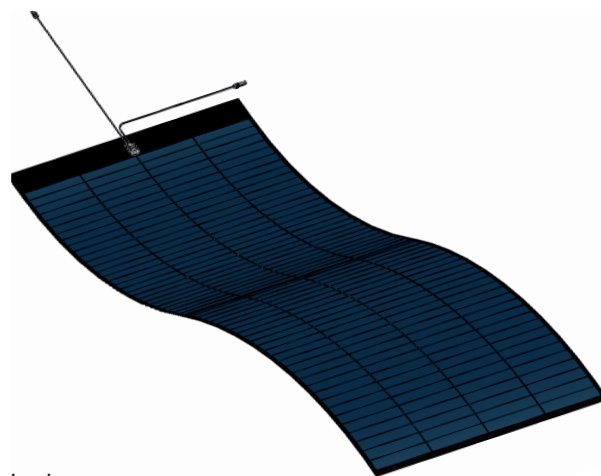
# TECHNICAL INFORMATION

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.

Details	Specifications
Product	FLEX-03W 2.6m
Length	2583 mm (101.8 in)
Width	1292 mm (50.9 in)
Module Thickness	2.5 mm (0.1 in)
Weight	6.6 kg (14.6 lb) with adhesive
Weight/Area	2.0 kg/m <sup>2</sup> (0.4 lb/ft <sup>2</sup> ) with adhesive
Junction Box Type	IP68
Cable Connections	MC4 Compatible
Cell Type	Copper Indium Gallium Selenide (CIGS)
Bend Radius	508 mm (20 in) minimum
Warranty*	5 year workmanship; 10/25 year power output
Certifications	UL 1703, IEC 61646, IEC 61730, cUL 1703, IEC 62716, IEC 61701 (Salt Spray), For Roofing Systems as the external fire exposure per UL file E483778 for Class A, B or C
Packaging Info	5 modules per crate, 40 modules per pallet, 320 modules per 20' ISO container, 640 modules per 40' ISO container

\*Please see full warranty for details.

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



- Low weight
- Flexible
- No module grounding
- Non-penetrating
- Designed for high wind & seismic zones



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HIGH EFFICIENCY  
LIGHTWEIGHT FORM  
IDEAL FOR RESERVOIR COVERS



## FLEX-03W 2.6m

FLEX-03 490W	490 WATTS
FLEX-03 500W	500 WATTS
FLEX-03 510W	510 WATTS
FLEX-03 520W	520 WATTS
FLEX-03 530W	530 WATTS

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MiaSolé Approved for Public Release.

990-200902-00\_2