

# Lightweight Solar Modules for Solar Reservoir Covers

The MiaSolé FLEX-02W 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 2.4 kg/m<sup>2</sup> (<0.5 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-02W Series
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 <sup>2</sup> (0.5 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 and IEC 61730, UL Fire Class A over TPO - slope up to 2.5:12
Packaging Info	15 modules per crate, 75 modules per pallet, 300 modules per 20' ISO container, 1200 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-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

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