

# MiaSolé FLEX SERIES -02N

## CIGS Flexible Modules: High Power Density in a Flexible Form Factor

### KEY FEATURES

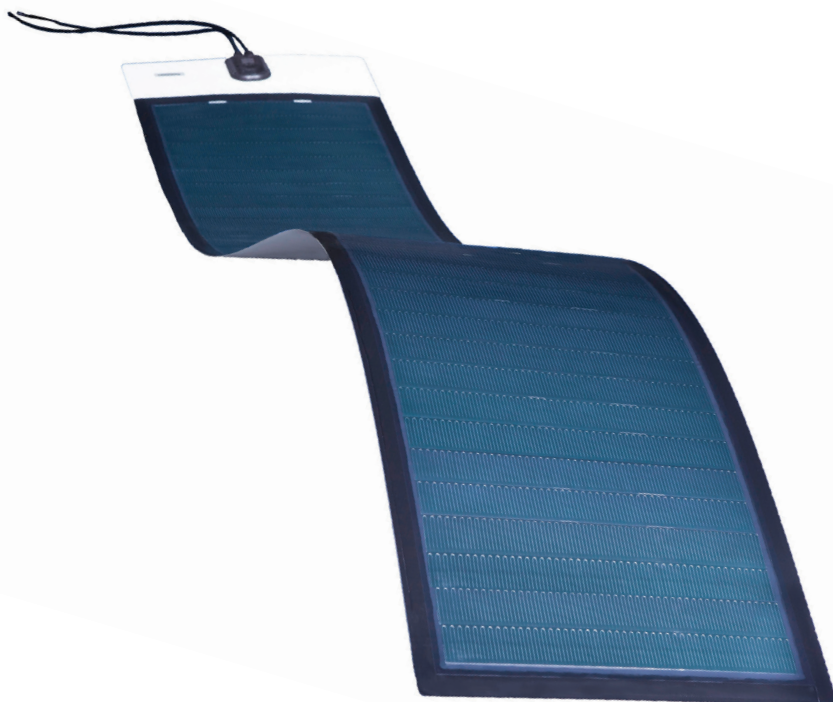
- ▶ Record efficiency levels in a flexible form factor
- ▶ Low installed weight at less than 2.9kg/m<sup>2</sup> (<0.6lb/sq ft)
- ▶ No penetrations, ballast or racking required
- ▶ Applicable for high wind load and high seismic hazard areas
- ▶ Bypass diodes reduce PV system shading losses

### RELIABILITY AND SAFETY

- ▶ IEC 61646 & IEC 61730
- ▶ UL 1703

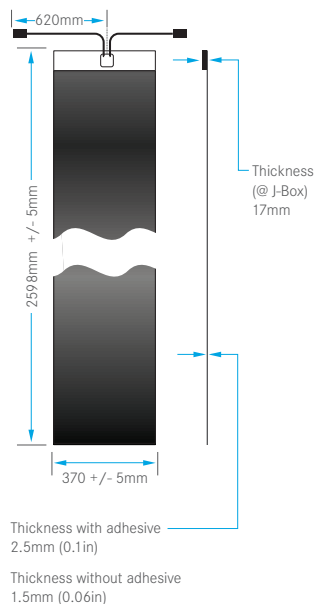
### WARRANTY

- ▶ 5 year workmanship
- ▶ 5/10/25 year warranty against power loss
- ▶ 25 year adhesion warranty



# MiaSolé FLEX SERIES

## FLEX-02N SERIES CIGS MODULE



### ELECTRICAL PERFORMANCE AT STC<sup>1</sup>

			FLEX-02 115N	FLEX-02 120N	FLEX-02 125N	FLEX-02 130N
Aperture Efficiency	$\eta$	[%]	15.0%	15.7%	16.4%	17.0%
Power Output Tolerance		[W]	+5/-0	+5/-0	+5/-0	+5/-0
Maximum Power Voltage	$V_{MPP}$	[V]	30.5	31.1	31.8	32.5
Maximum Power Current	$I_{MPP}$	[A]	3.83	3.89	3.94	4.00
Open Circuit Voltage	$V_{OC}$	[V]	38.6	39.1	39.6	40.1
Short Circuit Current	$I_{SC}$	[A]	4.33	4.34	4.35	4.35
Maximum Series Fuse Rating		[A]	10			
Maximum System Voltage (IEC/UL)		[V]	1000/600			

<sup>1</sup> Standard Test Conditions (STC): 1000 W/m<sup>2</sup>, 25°C cell temperature, AM 1.5 spectrum

### THERMAL CHARACTERISTICS

NOCT	[%/°C]	48
Temperature Coefficient of $P_{MPP}$	[%/°C]	-0.40
Temperature Coefficient of $V_{OC}$	[%/°C]	-0.36
Temperature Coefficient of $I_{SC}$	[%/°C]	0.003

### PHYSICAL AND MECHANICAL SPECIFICATIONS

Length	2598 mm (102.3 in)
Width	370 mm (14.6 in)
Thickness, Maximum at J-Box*	17 mm (0.7 in)
Weight (Module without adhesive)	2.0 kg (4.3 lb)
Weight (Module with adhesive)	2.7 kg (5.9 lb)
Weight/Area (Module without adhesive)	2.0 kg/m <sup>2</sup> (0.4 lb/ft <sup>2</sup> )
Weight/Area (Module with adhesive)	2.9 kg/m <sup>2</sup> (0.6 lb/ft <sup>2</sup> )
Junction Box Type	IP68
Cable Connections	MC4 Compatible
Cell Type	Copper Indium Gallium Diselenide (CIGS)
Warranty**	5 year workmanship; 5/10/25 year power output 25 year adhesion warranty
Certifications	UL 1703, IEC 61646, IEC 61730

\*2.5 mm (0.1 in) for the rest of the module with adhesive

\*1.5 mm (0.06 in) for the rest of module without adhesive

\*\*Please see full warranty for details



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