

# MiaSolé FLEX SERIES—03M

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

### KEY FEATURES

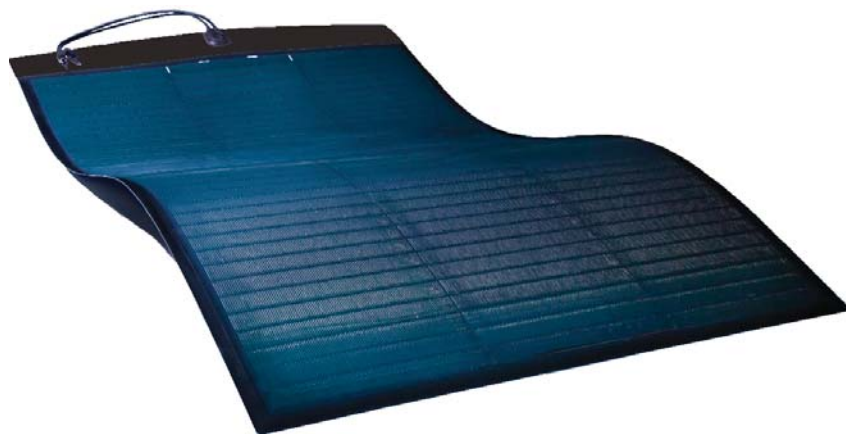
- ▶ Record efficiency levels in a flexible form factor
- ▶ Low installed weight at less than 2.0 kg/m<sup>2</sup> (<0.5 lb/ft<sup>2</sup>)
- ▶ No penetrations, ballast or racking required
- ▶ Applicable for high wind load and high seismic hazard areas
- ▶ Bypass diodes reduce PV system shading losses
- ▶ Directly bonds to many approved surfaces

### RELIABILITY AND SAFETY

- ▶ IEC 61646, IEC 61730, IEC 62716
- ▶ UL 1703, cUL 1703
- ▶ UL Class A over TPO - slope up to 2.5°

### WARRANTY

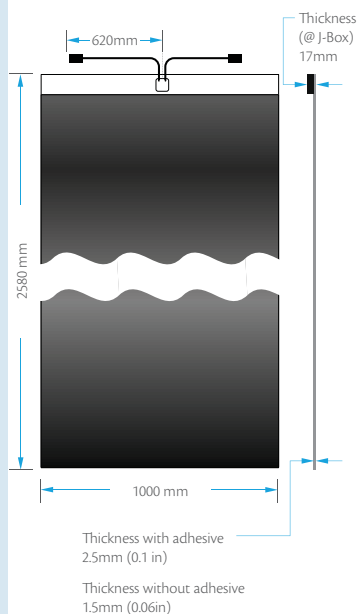
- ▶ 5 year workmanship
- ▶ 10/25 year warranty against power loss



# MiaSolé FLEX SERIES

## FLEX-03M SERIES CIGS MODULE

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



			FLEX-03 350M	FLEX-03 360M	FLEX-03 370M	FLEX-03 380M	FLEX-03 390M
Nominal Power	$P_{MPP}$	[W]	350	360	370	380	390
Aperature Efficiency	$\eta$	[%]	15.3%	15.7%	16.1%	16.6%	17.0%
Power Output Tolerance		[W]	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0
Maximum Power Voltage	$V_{MPP}$	[V]	29.2	29.5	29.9	30.2	30.5
Maximum Power Current	$I_{MPP}$	[A]	12.00	12.20	12.39	12.59	12.78
Open Circuit Voltage	$V_{OC}$	[V]	36.9	37.1	37.3	37.5	37.7
Short Circuit Current	$I_{SC}$	[A]	14.10	14.10	14.10	14.10	14.10
Maximum Series Fuse Rating		[A]	25				
Maximum System Voltage (IEC/UL)		[V]	1000/1000				

<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]	-0.38
Temperature Coefficient of $V_{OC}$	[%/°C]	-0.28
Temperature Coefficient of $I_{SC}$	[%/°C]	0.008

### PHYSICAL AND MECHANICAL SPECIFICATIONS

Length	2580 mm (101.6 in)
Width	1000 mm (39.4 in)
Thickness, Maximum at J-Box*, Module	17 mm (0.7 in), 2.5 mm (0.1 in)
Weight (Module without adhesive)	5.1 kg (11.1 lb)
Weight (Module with adhesive)	6.2 kg (13.7 lb)
Weight/Area (Module without adhesive)	1.7 kg/m <sup>2</sup> (0.3 lb/ft <sup>2</sup> )
Weight/Area (Module with adhesive)	2.0 kg/m <sup>2</sup> (0.4 lb/ft <sup>2</sup> )
Junction Box Type	IP68
Cable Connections	Amphenol Technology Shenzhen (E346053)
Cell Type	Copper Indium Gallium Diselenide (CIGS)
Warranty**	5 year workmanship; 10/25 year power output
Certifications	UL 1703, IEC 61646, IEC 61730, UL Class A over TPO - slope up to 2.5°, cUL 1703, IEC 62716

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

\*\*1.6 mm (0.06 in) for the rest of module without adhesive

\*\*Please see full warranty for details

Made in the USA and China



2590 Walsh Avenue, Santa Clara, California 95051, USA  
1.408.919.5700 info@miasole.com www.miasole.com

MiaSolé and the MiaSolé logo are registered trademarks.  
©2018 MiaSolé. All rights reserved. Specifications included in this datasheet are subject to change without notice.  
MiaSolé Approved for Public Release.  
Part Number