

MiaSolé FLEX SERIES—03N 1.7 METER

.35m x 1.7m
70 –90W

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

KEY FEATURES

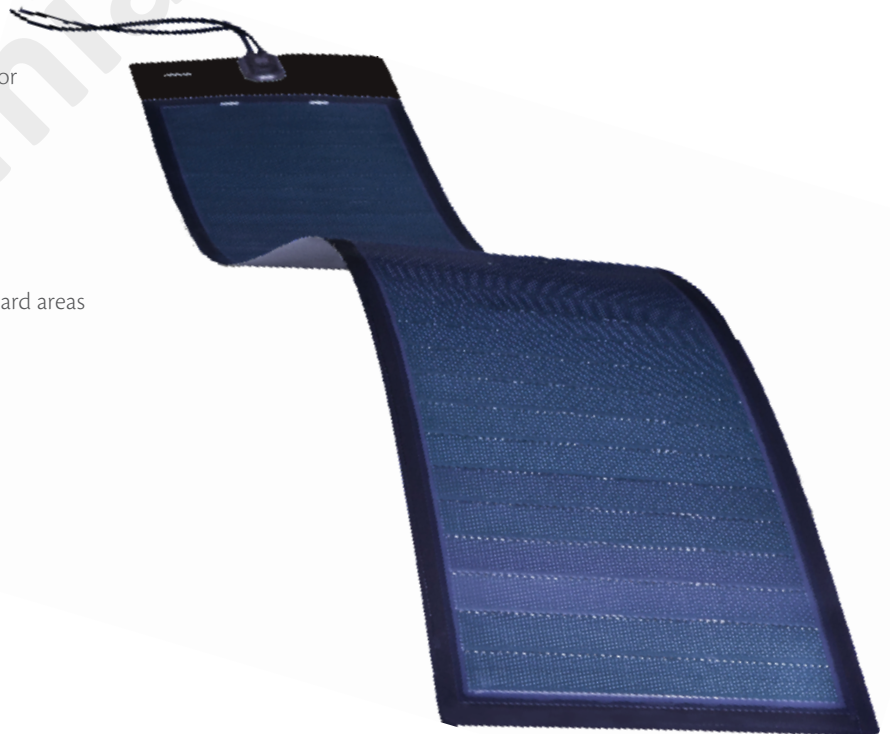
- ▶ Record efficiency levels in a CIGS flexible form factor
- ▶ Low installed weight at less than 2.7 kg/m² (<0.6 lb/ft²)
- ▶ No penetrations, ballast or racking required
- ▶ Applicable for high wind load and high seismic hazard areas
- ▶ Bypass diodes reduce PV system shading losses
- ▶ Directly bonds to many approved surfaces

RELIABILITY AND SAFETY

- ▶ IEC 61646, IEC 61730, IEC 62716, IEC 61701 (Salt Spray)
- ▶ UL 1703, cUL 1703

WARRANTY

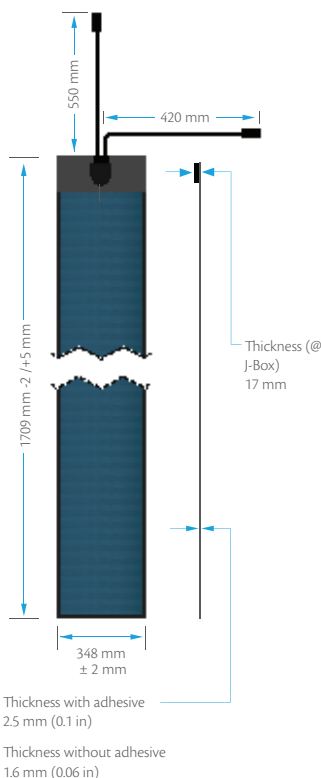
- ▶ 5 year workmanship
- ▶ 10/25 year warranty against power loss



MiaSolé FLEX SERIES

FLEX-03N 1.7 METER SERIES CIGS MODULE

ELECTRICAL PERFORMANCE AT STC¹



			FLEX-03 70N	FLEX-03 75N	FLEX-03 80N	FLEX-03 85N	FLEX-03 90N
Nominal Power	P_{MPP}	[W]	70	75	80	85	90
Aperture Efficiency	η	[%]	14.3%	15.3%	16.3%	17.3%	18.3%
Power Output Tolerance		[W]	+5/-0	+5/-0	+5/-0	+5/-0	+5/-0
Maximum Power Voltage	V_{MPP}	[V]	18.1	19.1	20.0	20.9	21.8
Maximum Power Current	I_{MPP}	[A]	3.88	3.95	4.01	4.07	4.14
Open Circuit Voltage	V_{OC}	[V]	23.2	24.0	24.7	25.5	26.3
Short Circuit Current	I_{SC}	[A]	4.67	4.60	4.54	4.47	4.41
Maximum Series Fuse Rating		[A]	10				
Maximum System Voltage (IEC/UL)		[V]	1000/1000				

¹Standard Test Conditions (STC): 1000 W/m², 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	1709 mm (67.3 in, 5ft 7.3in)
Width	348 mm (13.7 in, 1ft 1.7in)
Thickness, Maximum at J-Box*, Module	17 mm (0.7 in), 2.5 mm (0.1 in)
Weight (Module without adhesive)	1.2 kg (2.6 lb)
Weight (Module with adhesive)	1.6 kg (3.5 lb)
Weight/Area (Module without adhesive)	2.0 kg/m ² (0.4 lb/ft ²)
Weight/Area (Module with adhesive)	2.7 kg/m ² (0.6 lb/ft ²)
Junction Box Type	IP68
Cable Connections	Helios H4 (S&F)
Cell Type	Copper Indium Gallium Diselenide (CIGS)
Warranty**	5 year workmanship; 10/25 year power output
Certifications	UL 1703, IEC 61646, IEC 61730, cUL 1703, IEC 62716, IEC 61701 (Salt Spray)
Packaging Info	10 modules per crate, 80 modules per pallet, 1600 modules per 20' ISO container, 3520 modules per 40' ISO container

*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



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

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