

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/m² (<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
- ▶ Directly bonds to many approved surfaces

RELIABILITY AND SAFETY

- ▶ IEC 61646 & IEC 61730
- ▶ UL 1703

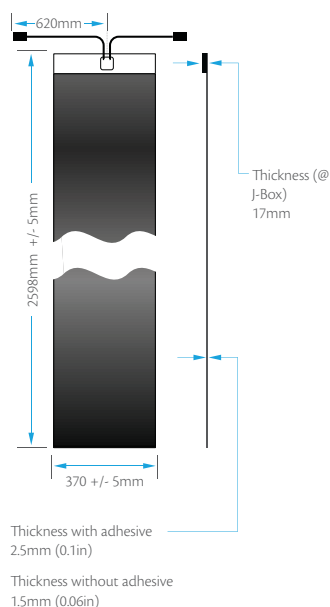
WARRANTY

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



MiaSolé FLEX SERIES

FLEX-02N SERIES CIGS MODULE



ELECTRICAL PERFORMANCE AT STC¹

			FLEX-02 115N	FLEX-02 120N	FLEX-02 125N	FLEX-02 130N
Nominal Power	P_{MPP}	[W]	115	120	125	130
Aperture Efficiency	η	[%]	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			

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]	-0.40
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*, Module	17 mm (0.7 in), 2.5 mm (.1 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 ² (0.4 lb/ft ²)
Weight/Area (Module with adhesive)	2.9 kg/m ² (0.6 lb/ft ²)
Junction Box Type	IP68
Cable Connections	Amphenol H ₄
Cell Type	Copper Indium Gallium Diselenide (CIGS)
Warranty**	5 year workmanship; 10/25 year power output
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

