

MiaSolé FLEX SERIES -02W

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 2.4 kg/m² (<0.5 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
- ▶ UL 1703
- ▶ UL Class A over TPO - slope up to 2.5"

WARRANTY

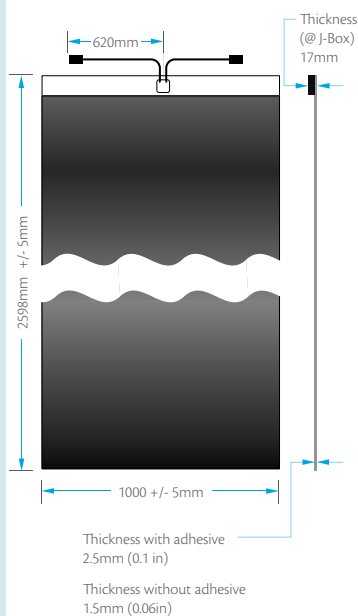
- ▶ 5 year workmanship
- ▶ 10/25 year warranty against power loss



MiaSolé FLEX SERIES

FLEX-02W SERIES CIGS MODULE

ELECTRICAL PERFORMANCE AT STC¹



			FLEX-02 340W	FLEX-02 350W	FLEX-02 360W	FLEX-02 370W	FLEX-02 380W
Nominal Power	P_{MPP}	[W]	340	350	360	370	380
Aperture Efficiency	η	[%]	14.8%	15.3%	15.7%	16.1%	16.6%
Power Output Tolerance		[W]	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0
Maximum Power Voltage	V_{MPP}	[V]	29.3	29.9	30.4	31.0	31.5
Maximum Power Current	I_{MPP}	[A]	11.61	11.72	11.83	11.94	12.06
Open Circuit Voltage	V_{OC}	[V]	37.5	37.9	38.3	38.6	39.0
Short Circuit Current	I_{SC}	[A]	13.54	13.55	13.56	13.57	13.58
Maximum Series Fuse Rating		[A]	25				
Maximum System Voltage (IEC/UL)		[V]	1000/600				

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	2598 mm (102.3 in)
Width	1000 mm (39.4 in)
Thickness, Maximum at J-Box*, Module	17 mm (0.7 in), 2.5mm (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)	2.0 kg/m ² (0.4 lb/ft ²)
Weight/Area (Module with adhesive)	2.4 kg/m ² (0.5 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, UL Class A over TPO - slope up to 2.5"
Packaging Info	15 modules per crate, 75 modules per pallet, 300 modules per 20' ISO container, 1200 modules per 40' ISO container

*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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