

MiaSolé FLEX SERIES -02WS

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

KEY FEATURES

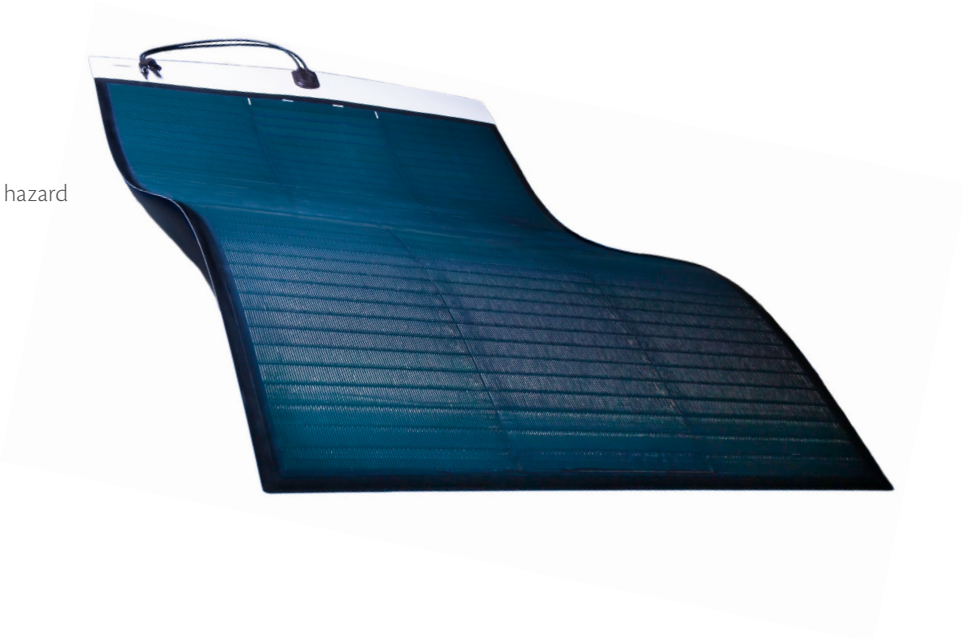
- ▶ Record efficiency levels in a flexible form factor
- ▶ Low installed weight at less than 2.9 kg/m² (<0.6 lb/ft²)
- ▶ No penetrations, ballast or racking required
- ▶ Applicable for high wind load and high seismic hazard areas
- ▶ Bypass diodes reduce PV system shading losses
- ▶ Directly bonds to many approved surfaces

RELIABILITY AND SAFETY

- ▶ IEC 61646 & IEC 61730
- ▶ UL 1703
- ▶ UL Class A over TPO - slope up to 2.5"

WARRANTY

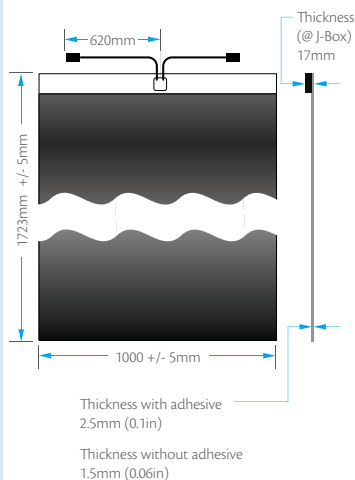
- ▶ 5 year workmanship
- ▶ 10/25 year warranty against power loss



MiaSolé FLEX SERIES

FLEX-02WS SERIES CIGS MODULE

ELECTRICAL PERFORMANCE AT STC¹



			FLEX-02 210WS	FLEX-02 220WS	FLEX-02 230WS	FLEX-02 240WS	FLEX-02 250WS
Nominal Power	P_{MPP}	[W]	210	220	230	240	250
Aperature Efficiency	η	[%]	14.2%	14.9%	15.6%	16.3%	17.0%
Power Output Tolerance		[W]	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0
Maximum Power Voltage	V_{MPP}	[V]	18.4	18.9	19.5	20.0	20.6
Maximum Power Current	I_{MPP}	[A]	11.43	11.63	11.81	11.98	12.16
Open Circuit Voltage	V_{OC}	[V]	23.8	24.2	24.5	24.9	25.3
Short Circuit Current	I_{SC}	[A]	13.53	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	1723 mm (67.8 in)
Width	1000 mm (39.4 in)
Thickness, Maximum at J-Box*, Module	17 mm (0.7 in), 2.5mm (.1 in)
Weight (Module without adhesive)	3.4 kg (7.5 lb)
Weight (Module with adhesive)	4.2 kg (9.2 lb)
Weight/Area (Module without adhesive)	2.0 kg/m ² (0.4lb/ft ²)
Weight/Area (Module with adhesive)	2.9 kg/m ² (0.5lb/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 Information	15 modules per crate, 75 modules per pallet, 750 modules per 20' ISO container, 1650 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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