

MiaSolé FLEX SERIES—03W 1 METER

1.3m x 1m
160 – 200W

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

KEY FEATURES

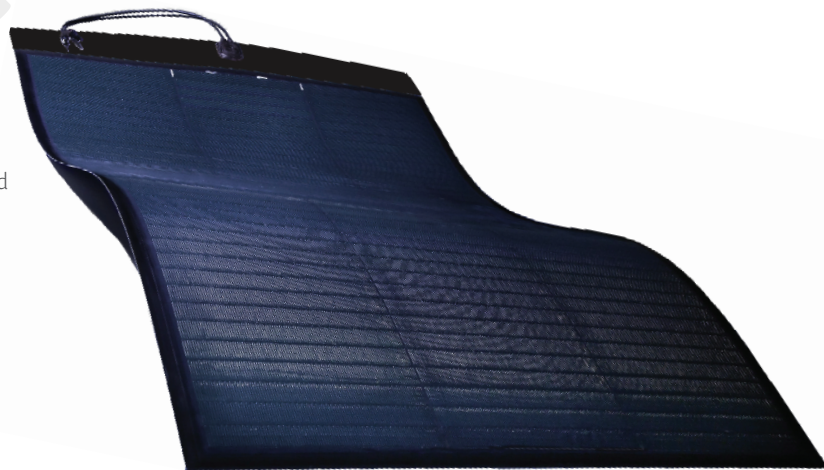
- ▶ Record efficiency levels in a flexible form factor
- ▶ Low installed weight at less than 2.0 kg/m² (<0.5 lb/ft²)
- ▶ No penetrations, ballast or racking required
- ▶ Applicable for high wind load and high seismic hazard areas
- ▶ Bypass diodes reduce PV system shading losses
- ▶ Directly bonds to many approved surfaces

RELIABILITY AND SAFETY

- ▶ IEC 61646, IEC 61730, IEC 61701 (Salt Spray)
- ▶ UL 1703
- ▶ For Roofing Systems as the external fire exposure per UL file E483778 for Class A, B or C

WARRANTY

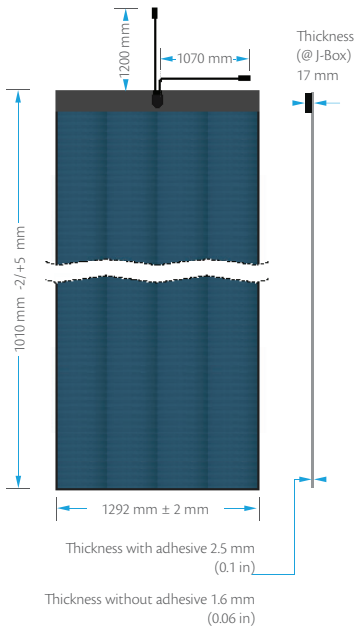
- ▶ 5 year workmanship
- ▶ 10/25 year warranty against power loss



MiaSolé FLEX SERIES

FLEX-03W 1 METER SERIES CIGS MODULE

ELECTRICAL PERFORMANCE AT STC¹



		FLEX-03 160W	FLEX-03 170W	FLEX-03 180W	FLEX-03 190W	FLEX-03 200W	
Nominal Power	P_{MPP}	[W]	160	170	180	190	200
Aperature Efficiency	η	[%]	14.7%	15.6%	16.5%	17.4%	18.3%
Power Output Tolerance		[W]	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0
Maximum Power Voltage	V_{MPP}	[V]	20.6	21.5	22.4	23.3	24.2
Maximum Power Current	I_{MPP}	[A]	7.82	7.93	8.05	8.16	8.27
Open Circuit Voltage	V_{OC}	[V]	26.1	26.9	27.7	28.4	29.2
Short Circuit Current	I_{SC}	[A]	9.28	9.17	9.05	8.93	8.82
Maximum Series Fuse Rating		[A]	25				
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	1010 mm (39.8 in, 3ft 3.8in)
Width	1292 mm (50.9 in, 4ft 2.9in)
Thickness, Maximum at J-Box*, Module	17 mm (0.7 in), 2.5 mm (0.1 in)
Weight (Module without adhesive)	2.2 kg (4.9 lb)
Weight (Module with adhesive)	2.6 kg (5.7 lb)
Weight/Area (Module without adhesive)	1.7 kg/m ² (0.3 lb/ft ²)
Weight/Area (Module with adhesive)	2.0 kg/m ² (0.4 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, IEC 61701 (Salt Spray), For Roofing Systems as the external fire exposure per UL file E483778 for Class A, B or C
Packaging Info	5 modules per crate, 20 modules per pallet, 320 modules per 20' ISO container, 640 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



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