MiaSolé FLEX SERIES—03NS

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 2.2 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 62716, Australia CEC, IEC 61701 (Salt Spray)
- ▶ UL 1703, cUL 1703

WARRANTY

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

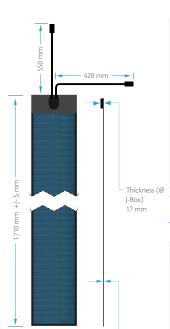




MiaSolé FLEX SERIES

FLEX-03NS SERIES CIGS MODULE

ELECTRICAL PERFORMANCE AT STC¹



Thickness with adhesive 2.5 mm (0.1 in)

Thickness without adhesive 1.6 mm (0.06 in)

348 mm +/- 5 mm

			FLEX-03 70NS	FLEX-03 75NS	FLEX-03 80NS	FLEX-03 85NS
Nominal Power	P _{MPP}	[W]	70	75	80	85
Aperture Efficiency	η	[%]	14.3%	15.3%	16.3%	17.3%
Power Output Tolerance		[W]	+5/-0	+5/-0	+5/-0	+5/-0
Maximum Power Voltage	V_{MPP}	[V]	18.3	18.8	19.3	19.8
Maximum Power Current	I _{MPP}	[A]	3.85	4.00	4.15	4.30
Open Circuit Voltage	V _{oc}	[V]	23.5	23.7	24.0	24.3
Short Circuit Current	I _{sc}	[A]	4.70	4.70	4.70	4.70
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	[℃]	48
Temperature Coefficient of P _{MPP}	[%/℃]	-0.38
Temperature Coefficient of V _{oc}	[%/℃]	-0.28
Temperature Coefficient of I _{sc}	[%/℃]	0.008

PHYSICAL AND MECHANICAL SPECIFICATIONS

Length	1710 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)	1.1 kg (2.4 lb)		
Weight (Module with adhesive)	1.3 kg (2.9 lb)		
Weight/Area (Module without adhesive)	1.8 kg/m² (0.4 lb/ft²)		
Weight/Area (Module with adhesive)	2.2 kg/m² (0.5 lb/ft²)		
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, cUL 1703, IEC 62716, Australia CEC. IEC 61701 (Salt Spray)		
Packaging Info	10 modules per crate, 80 modules per pallet		

^{*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

